

# DRES17 Rabbit pAb

Catalog # AP98728

## Product Information

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Primary Accession</b>       | <a href="#">Q86TP1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Other Accession</b>         | <a href="#">Q86TP1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reactivity</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Predicted</b>               | Rat, Pig, Human, Rabbit, Dog, Horse, Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Calculated MW</b>           | 50200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human DRES17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Epitope Specificity</b>     | 201-300/453                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>SIMILARITY</b>              | Belongs to the PPase class C family. Prune subfamily.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>SUBUNIT</b>                 | Homooligomer. Able to homodimerize via its C-terminal domain. Interacts with NME1. Interacts with GSK3; at focal adhesion complexes where paxillin and vinculin are colocalized.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Background Descriptions</b> | PRUNE, the human homologue of the Drosophila gene, is located in 1q21.3, a region highly amplified in human sarcomas, malignant tumours of mesenchymal origin. Human prune (h-prune), a phosphoesterase DHH family appertaining protein, physically interacts with nm23-H1, a metastasis suppressor gene. h-prune is involved in cellular motility and metastasis formation. Metastatic breast cancers were found to overexpress h-prune; h-prune was also found to be highly expressed in colorectal and pancreatic cancers. Hence h-prune is considered useful as a marker for tumor aggressiveness. |

## Additional Information

|                    |                                                                                                                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>     | 58497                                                                                                                                                                                                                                                                                           |
| <b>Other Names</b> | DRES-17; DRES17; H-PRUNE; HTCD37; NMIHBA; PRUNE; 9230112O05Rik; C130058A12; PRUNEM1; Prune-M1; PRUN1_HUMAN; PRUNE1; Drosophila-related expressed sequence 17 (DRES-17   DRES17); Protein prune homolog 1 (hPrune); 3.6.1.1; PRUN1_MOUSE; prune exopolyphosphatase 1; prune homolog (Drosophila) |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                                                                                                                                    |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When                                                                                                                                                                                                                           |

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

---

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | PRUNE1 ( <a href="#">HGNC:13420</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>          | PRUNE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>          | Exopolyphosphatase that catalyzes the hydrolysis of inorganic polyphosphates, with preference for short-chain substrates, as well as nucleoside 5'-tetraphosphates, releasing terminal phosphate residues (PubMed: <a href="#">18700747</a> ). Also exhibits phosphodiesterase activity toward cyclic nucleotides, hydrolyzing cAMP and cGMP to their corresponding 5'-monophosphates (PubMed: <a href="#">14998490</a> , PubMed: <a href="#">17655525</a> ). Requires divalent metal ions for activity (PubMed: <a href="#">14998490</a> , PubMed: <a href="#">18700747</a> ). Plays a role in cell proliferation, migration and differentiation, and acts as a negative regulator of NME1 (PubMed: <a href="#">10602478</a> , PubMed: <a href="#">11687967</a> , PubMed: <a href="#">14998490</a> , PubMed: <a href="#">16428445</a> , PubMed: <a href="#">17906697</a> ). Plays a role in the regulation of neurogenesis. Involved in the regulation of microtubule polymerization (PubMed: <a href="#">28334956</a> ). |
| <b>Cellular Location</b> | Cytoplasm. Nucleus. Cell junction, focal adhesion. Note=In some transfected cells a nuclear staining is also observed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tissue Location</b>   | Ubiquitously expressed. Seems to be overexpressed in aggressive sarcoma subtypes, such as leiomyosarcomas and malignant fibrous histiocytomas (MFH) as well as in the less malignant liposarcomas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.