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DRES17 Rabbit pAb

Catalog # AP98728

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q86TP1
Other Accession	Q86TP1
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50200
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DRES17
Epitope Specificity	201-300/453
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the PPase class C family. Prune subfamily.
SUBUNIT	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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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

Gene ID	58497
Other Names	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)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	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

Name	PRUNE1 (HGNC:13420)
Synonyms	PRUNE
Function	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:18700747). Also exhibits phosphodiesterase activity toward cyclic nucleotides, hydrolyzing cAMP and cGMP to their corresponding 5'-monophosphates (PubMed:14998490, PubMed:17655525). Requires divalent metal ions for activity (PubMed:14998490, PubMed:18700747). Plays a role in cell proliferation, migration and differentiation, and acts as a negative regulator of NME1 (PubMed:10602478, PubMed:11687967, PubMed:14998490, PubMed:16428445, PubMed:17906697). Plays a role in the regulation of neurogenesis. Involved in the regulation of microtubule polymerization (PubMed:28334956).
Cellular Location	Cytoplasm. Nucleus. Cell junction, focal adhesion. Note=In some transfected cells a nuclear staining is also observed
Tissue Location	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'.