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PRUNE Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9748b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q86TP1
Reactivity	Human
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24464
Calculated MW	50200
Antigen Region	360-389

Additional Information

Gene ID	58497
Other Names	Protein prune homolog, hPrune, Drosophila-related expressed sequence 17, DRES-17, DRES17, HTcD37, PRUNE
Target/Specificity	This PRUNE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 360-389 amino acids from the C-terminal region of human PRUNE.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRUNE Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

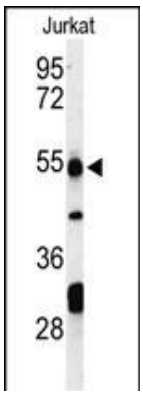
Background

Phosphodiesterase (PDE) that has higher activity toward cAMP than cGMP, as substrate. It plays a role in cell proliferation, is able to induce cell motility and acts as a negative regulator of NME1.

References

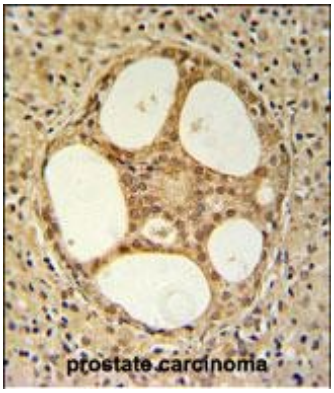
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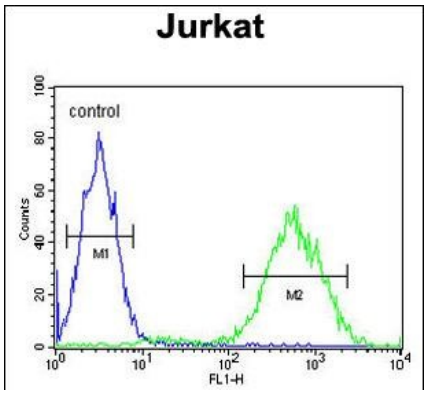
Images



Western blot analysis of PRUNE Antibody (C-term) (Cat. #AP9748b) in Jurkat cell line lysates (35ug/lane). PRUNE (arrow) was detected using the purified Pab.

PRUNE Antibody (C-term) (Cat. #AP9748b) IHC analysis in formalin fixed and paraffin embedded prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PRUNE Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.





PRUNE Antibody (C-term) (Cat. #AP9748b) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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