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Prominin 2 Rabbit pAb

Catalog # AP97198

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8N271
Other Accession	Q8N271
Predicted	Rat, Pig, Human, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91883
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Prominin 2
Epitope Specificity	301-400/834
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 prominin family.
SUBUNIT	Binds cholesterol (By similarity).
Post-translational modifications	Glycosylated (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Prominin 2 is a 112 kDa glycoporotein structurally related to Prominin 1 (CD133) although amino acid similarity is not more than 30%, but their genomic organization is strikingly similar. Like Prominin 1, the prominin 2 exhibit similar membrane topology with 5 trans-membrane domains and two large glycosylated extracellular domains. Similar to Prominin1 localization, the Prominin 2 is also associated with membrane protrusions of the epithelial cells from adult kidney, and all along the digestive track and other epithelial tissues. Prominin 2 expression is down-regulated in aggressive prostate cancer cell lines and transient transfection of PROML2 expression vectors has been shown to induce apoptosis in cultured prostate cancer cells, suggesting a tumor suppressive role for Prominin 2. Prominin 2 expression is likely to be involved in growth suppression in the prostate, and down-regulation of Prominin 2 may disrupt normal prostatic homeostasis and lead to uncontrolled prostatic growth.

Additional Information

Gene ID	150696
Other Names	PROML2; Prom-rp; Promrp; Trprp; PROM2_HUMAN; PROM2; PROM-2; Prominin-like protein 2 (hPROML2); PROM2_MOUSE; Prominin-like protein 2 (mPROML2); PROM2_RAT; Prominin-like protein 2 (rPROML2); Testosterone-regulated prominin-related protein; prominin 2

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	PROM2
Synonyms	PROML2
Cellular Location	Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein. Cell projection, microvillus membrane; Multi-pass membrane protein. Cell projection, cilium membrane; Multi-pass membrane protein. Note=Colocalizes with PROM1 Associates with membrane in a cholesterol-dependent manner. Localizes to the apical and basolateral membranes of epithelial cells (By similarity).
Tissue Location	Present in saliva within small membrane particles (at protein level). Expressed in kidney, prostate, trachea, esophagus, salivary gland, thyroid gland, mammary gland adrenal gland, placenta, stomach, spinal cord and liver. In submucosal tumor, expressed in spindle-shaped or stellate stromal cells. Expressed in prostate cancer cell lines.

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