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Prom1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14619

Product Information

Application	WB
Primary Accession	O54990
Other Accession	NM_001163577, NP_001157049
Reactivity	Human, Mouse, Rat, Zebrafish, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97113

Additional Information

Gene ID	19126
Alias Symbol	4932416E19Rik, AC133, CD133, Prom, Prom-1, Proml1
Other Names	Prominin-1, Antigen AC133 homolog, Prominin-like protein 1, CD133, Prom1, Prom, Proml1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Prom1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Prom1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

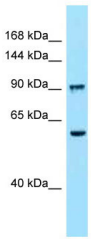
Name	Prom1
Synonyms	Prom, Proml1
Function	May play a role in cell differentiation, proliferation and apoptosis. Binds cholesterol in cholesterol-containing plasma membrane microdomains and may play a role in the organization of the apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis (PubMed:19228982). Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent manner.

Cellular Location	Apical cell membrane; Multi-pass membrane protein. Cell projection, microvillus membrane; Multi-pass membrane protein. Cell projection, cilium, photoreceptor outer segment Endoplasmic reticulum. Endoplasmic reticulum-Golgi intermediate compartment. Note=Found in extracellular membrane particles in various body fluids such as ventricular fluid of the developing brain and urine
Tissue Location	In the submandibular gland, expressed on the apical side of epithelial cells. In the parotid gland, expressed in the intercalated ducts. In the sublingual gland, expressed in intercalated ducts. In the extraorbital lacrimal gland, expressed in the intercalated tubules and larger intralobular ducts. Expressed in the retina. Present in urine within small membrane particles (at protein level). In the embryo, expressed on the apical side of neuroepithelial cells and of other epithelia such as lung buds, gut and ureter buds. In the adult, expressed at the apical side of the kidney tubules and of the ependymal layer of the brain. Not expressed in gut, liver, lung, pituitary, adrenal, heart or spleen. Localized to the nascent disk membranes at the base of the rod outer segment in the retina (at protein level).

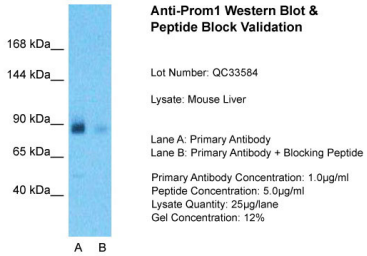
References

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Weigmann A.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:12425-12430(1997).
Fargeas C.A.,et al.J. Cell Sci. 117:4301-4311(2004).
Carninci P.,et al.Science 309:1559-1563(2005).
Roeper K.,et al.Nat. Cell Biol. 2:582-592(2000).

Images



WB Suggested Anti-Prom1 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Liver



Host: Rabbit
Target Name:Prom1
Sample Tissue:Mouse Liver
Lane A: Primary Antibody
Lane B:Primary Antibody + Blocking Peptide
Primary Antibody
Concentration:1µg/ml
Peptide Concentration: 5µg/ml
Lysate Quantity: 25ug/lane/Lane Gel
Concentration: 0.12

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