

Prom1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14619

Specification

Prom1 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	O54990
Other Accession	NM_001163577 , NP_001157049
Reactivity	Human, Mouse, Rat, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Pig, Chicken, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95kDa KDa

Prom1 antibody - N-terminal region - 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.

Prom1 antibody - N-terminal region - 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:<a href="http://www.uniprot.org/citations/19228982"

target="_blank">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

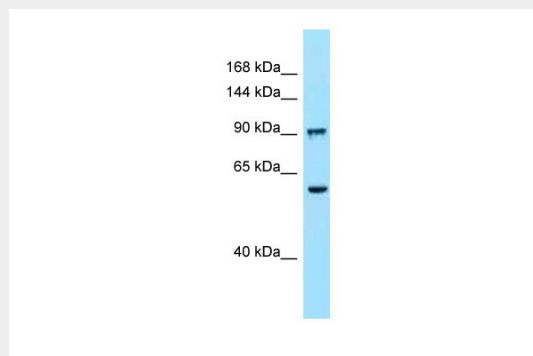
In the submandibular gland, expressed on the apical side of epithelial cells. In the parotid gland, expressed in the intercalated ducts. In the sublingual gland, expressed in intercalated ducts. In the extraorbital lacrimal gland, expressed in the intercalated tubules and larger intralobular ducts. Expressed 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).

Prom1 antibody - N-terminal region - Protocols

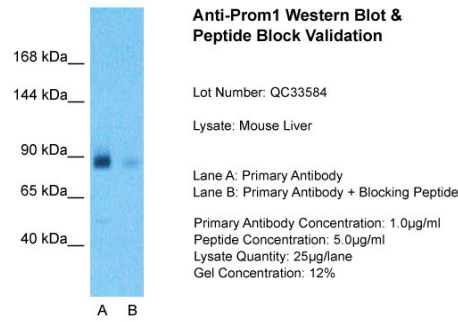
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Prom1 antibody - N-terminal region - 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

Prom1 antibody - N-terminal region - References

- Miraglia S., et al. Blood 90:5013-5021(1997).
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).