

# Prom1 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14619

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">O54990</a>
<b>Other Accession</b>	<a href="#">NM_001163577</a> , <a href="#">NP_001157049</a>
<b>Reactivity</b>	Human, Mouse, Rat, Zebrafish, Dog, Guinea Pig, Horse, Bovine
<b>Predicted</b>	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	97113

## Additional Information

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<b>Gene ID</b>	19126
<b>Alias Symbol</b>	4932416E19Rik, AC133, CD133, Prom, Prom-1, Proml1
<b>Other Names</b>	Prominin-1, Antigen AC133 homolog, Prominin-like protein 1, CD133, Prom1, Prom, Proml1
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	Prom1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	Prom1
<b>Synonyms</b>	Prom, Proml1
<b>Function</b>	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="#">19228982</a> ). 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

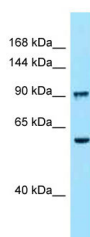
## Tissue Location

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).

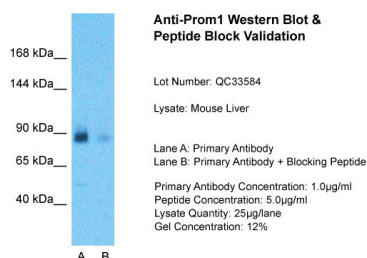
## References

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).

## 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: 1 µg/ml  
Peptide Concentration: 5 µg/ml  
Lysate Quantity: 25 µg/lane/Lane Gel  
Concentration: 0.12

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