

**Goat anti-PROM1 / CD133 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4519a****Specification**

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**Goat anti-PROM1 / CD133 Antibody - Product Information**

Application	IF, Pep-ELISA
Primary Accession	<a href="#">O43490</a>
Other Accession	<a href="#">NP_006008.1</a> , <a href="#">NP_001139319.1</a> , <a href="#">NP_001139324.1</a> , <a href="#">NP_001139323.1</a> , <a href="#">NP_001139322.1</a> , <a href="#">NP_001139321.1</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	97202

**Goat anti-PROM1 / CD133 Antibody - Additional Information****Gene ID** 8842**Other Names**

PROM1; prominin 1; AC133; CD133; CORD12; MCDR2; PROML1; RP41; STGD4;  
OTTHUMP00000217744; OTTHUMP00000217745; OTTHUMP00000217746; antigen AC133;  
hProminin; hematopoietic stem cell antigen; prominin-1; prominin-like 1; prominin-like protein 1

**Dilution**

IF~~1:50~200  
Pep-ELISA~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.  
Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

This antibody is expected to recognize all reported isoforms (NP\_006008.1; NP\_001139319.1; NP\_001139324.1; NP\_001139323.1; NP\_001139322.1; NP\_001139321.1). Reported variants represent identical protein: NP\_001139320.1, NP\_001139319.1

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat anti-PROM1 / CD133 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat anti-PROM1 / CD133 Antibody - Protein Information**

**Name** PROM1**Synonyms** PROML1**Function**

May play a role in cell differentiation, proliferation and apoptosis (PubMed:<a href="http://www.uniprot.org/citations/24556617" target="\_blank">24556617</a>). 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. Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent manner (PubMed:<a href="http://www.uniprot.org/citations/20818439" target="\_blank">20818439</a>).

**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 cerebrospinal fluid, saliva, seminal fluid and urine

**Tissue Location**

Isoform 1 is selectively expressed on CD34 hematopoietic stem and progenitor cells in adult and fetal bone marrow, fetal liver, cord blood and adult peripheral blood. Isoform 1 is not detected on other blood cells. Isoform 1 is also expressed in a number of non-lymphoid tissues including retina, pancreas, placenta, kidney, liver, lung, brain and heart. Found in saliva within small membrane particles. Isoform 2 is predominantly expressed in fetal liver, skeletal muscle, kidney, and heart as well as adult pancreas, kidney, liver, lung, and placenta. Isoform 2 is highly expressed in fetal liver, low in bone marrow, and barely detectable in peripheral blood Isoform 2 is expressed on hematopoietic stem cells and in epidermal basal cells (at protein level). Expressed in adult retina by rod and cone photoreceptor cells (at protein level)

**Goat anti-PROM1 / CD133 Antibody - 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](#)

**Goat anti-PROM1 / CD133 Antibody - Images**