

**Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1)  
Recombinant Antibody  
Catalog # APR11018****Specification**

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**Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">O43490</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	145.64 KDa

**Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1) - Additional Information****Target/Specificity**

PROM1 / CD133

**Endotoxin**

&lt; 0.001EU/ µg,determined by LAL method.

**Conjugation**

Unconjugated

**Expression system**

CHO Cell

**Format**

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

**Storage**

-80°C for 2 years under sterile conditions □ -20°C for 1 year under sterile conditions □ Avoid repeated freeze-thaw cycles.

**Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1) - Protein Information****Name** PROM1**Synonyms** PROML1**Function**

May play a role in cell differentiation, proliferation and apoptosis (PubMed:&lt;a href="http://www.uniprot.org/citations/24556617" target="\_blank"&gt;24556617&lt;/a&gt;). 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**

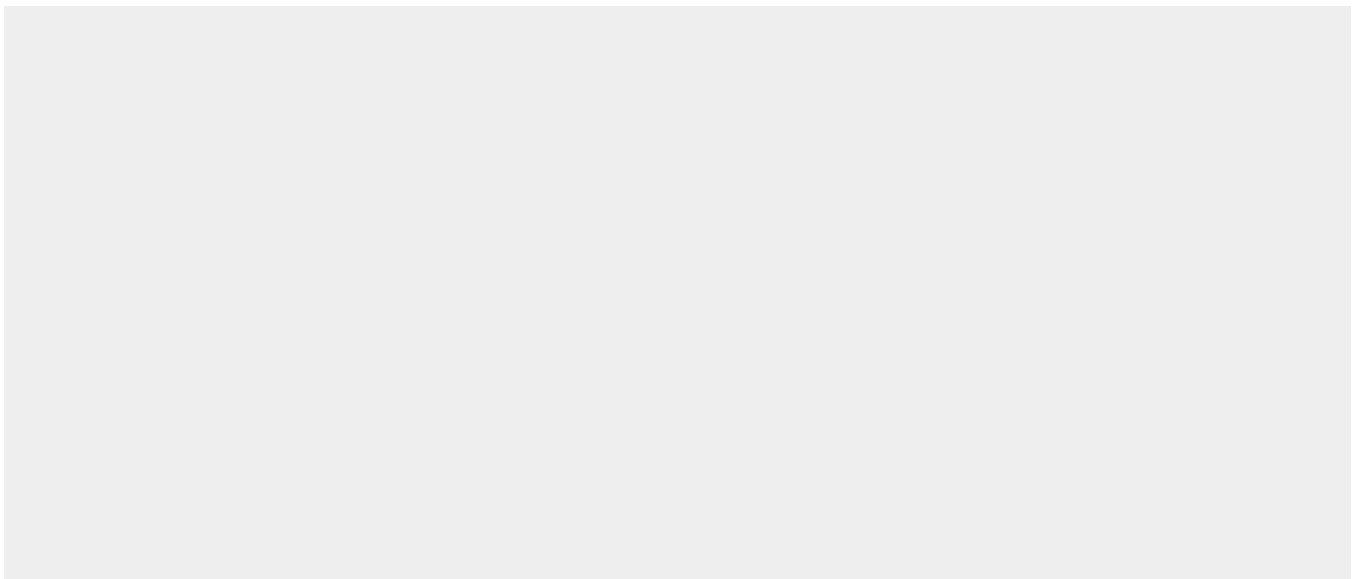
Isoform 1 is selectively expressed on CD34 hematopoietic stem and progenitor cells in adult and fetal bone marrow, fetal liver, cord blood and adult peripheral blood. Isoform 1 is not detected on other blood cells. Isoform 1 is also expressed in a number of non-lymphoid tissues including retina, pancreas, 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)

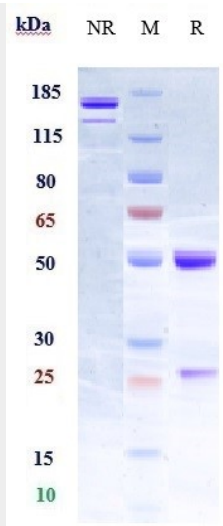
### **Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1) - Protocols**

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

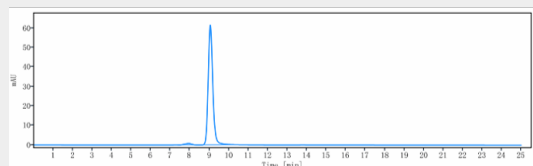
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1) - Images**





Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1) is more than 95%, determined by SEC-HPLC.