

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

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

Application	FC, E, FTA
Primary Accession	O43490
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**
< 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:24556617). 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: <http://www.uniprot.org/citations/20818439> target="_blank">20818439).

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)

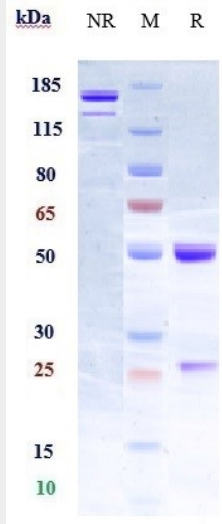
Anti-PROM1 / CD133 Reference Antibody (Forerunner patent anti-Prominin-1) - Protocols

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

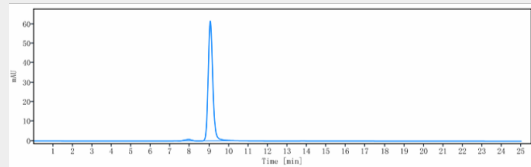
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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.