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PROM1 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP11759b

Specification

PROM1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession O43490

PROM1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 8842

Other Names
Prominin-1, Antigen AC133, Prominin-like protein 1, CD133, PROM1, PROML1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PROM1 Antibody (C-term) Blocking peptide - 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: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)

PROM1 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

PROM1 Antibody (C-term) Blocking peptide - Images

PROM1 Antibody (C-term) Blocking peptide - Background

This gene encodes a member of the low-density lipoproteinreceptor related protein family. The product of this gene is atransmembrane protein that is differentially expressed in manycancer cells. Alternate splicing results in multiple transcriptvariants.

PROM1 Antibody (C-term) Blocking peptide - References

Garnis, C., et al. Oncogene 23(14):2582-2586(2004)Battle, M.A., et al. Biochemistry 42(24):7270-7282(2003)Qing, J., et al. Oncogene 18(2):335-342(1999)