

PROM1 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21276c**Specification**

PROM1 Blocking Peptide (Center) - Product InformationPrimary Accession [O43490](#)**PROM1 Blocking Peptide (Center) - Additional Information****Gene ID** 8842**Other Names**

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

Target/Specificity

The synthetic peptide sequence is selected from aa 361-375 of HUMAN PROM1

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 Blocking Peptide (Center) - 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 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

PROM1 Blocking Peptide (Center) - Images

PROM1 Blocking Peptide (Center) - Background

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PROM1 Blocking Peptide (Center) - References

Miraglia S.,et al.Blood 90:5013-5021(1997).
Yu Y.,et al.J. Biol. Chem. 277:20711-20716(2002).
Lin J.,et al.Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.
Wang X.Y.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).