

Rabbit Prominin 1 Polyclonal Antibody | anti-PROM1 antibody

Prominin 1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75662	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, ELISA

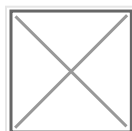
PRODUCT SYNONYMS

Prominin 1; Polyclonal Antibody; Prominin 1 Antibody; AC133; CD133; CORD12; Hematopoietic stem cell antigen; MCDR2; MSTP061; RP41; STGD4 antibody; anti-PROM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	0.50-0.95 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	787
Applicable Applications for anti-PROM1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	Synthetic peptide taken within amino acid regions 700-730 on CD133 protein
Expression	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, 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).
Molecular Function	Actinin binding; Cadherin binding
Structure	Interacts with CDHR1 and with actin filaments. Interacts with NAT8 and NAT8B.
Subcellular Location	Apical cell membrane; Multi-pass membrane protein; Microvillus membrane; cilium; photoreceptor outer segment; Endoplasmic Reticulum-Golgi intermediate compartment
Preparation and Storage	-20• degree C for long term storage

IMAGES



IHC (Immunohistochemistry)

ADDITIONAL INFORMATION

Related Product Information for anti-PROM1 antibody	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).
Product Categories/Family for anti-PROM1 antibody	Primary Antibodies; Prominin 1 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	578808417
NCBI GeneID	8842
NCBI Accession #	XP_006714037.1
NCBI GenBank Nucleotide #	XM_006713974.3
Molecular Weight	94,605 Da
NCBI Official Full Name	prominin-1 isoform X11
NCBI Official Synonym Full Names	prominin 1
NCBI Official Symbol	PROM1
NCBI Official Synonym Symbols	RP41; AC133; CD133; MCDR2; STGD4; CORD12; PROML1; MSTP061
NCBI Protein Information	prominin-1
UniProt Protein Name	Prominin-1
UniProt Gene Name	PROM1
UniProt Synonym Gene Names	PROML1
UniProt Entry Name	PROM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/prominin-1-antibody-western-blot-immunohistochemistry-elisa/75662>