

Rabbit CD133 Polyclonal Antibody | anti-CD133 antibody

CD133 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321807	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CD133; Polyclonal Antibody; CD133 Antibody; AC133; Antigen AC133; CORD12; Hematopoietic stem cell antigen; hProminin; MCDR2; MSTP061; OTTHUMP00000217744; OTTHUMP00000217745; OTTHUMP00000217746; PROM1; PROM1_HUMAN; Prominin I; Prominin like 1; Prominin like protein 1 precursor; Prominin mouse like 1; Prominin-1; Prominin-like protein 1; Prominin1; PROML1; RP41; STGD4; anti-CD133 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CD133 antibody detects endogenous levels of total CD133
Purity/Purification	Peptide affinity purification
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	856
Applicable Applications for anti-CD133 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CD133, corresponding to a region within N-terminal amino acids.
Conjugation	Unconjugated
Preparation and Storage	Store at -20°C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from 293, using CD133 Antibody. The lane on the left was treated with blocking peptide.



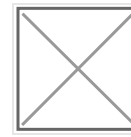
IHC (Immunohistochemistry)

CD133 Antibody for IHC in human testis.



WB (Western Blot)

Western blot analysis of CD133 expression in SW620 cells, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321807 staining Caco 2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD133 antibody

Description: CD133, originally known as AC133. CD133 is a glycoprotein also known in humans and rodents as Prominin 1 (PROM1). Currently the function of CD133 is unknown. It is a member of pentaspan transmembrane glycoproteins (5-transmembrane, 5-TM), which specifically localize to cellular protrusions. CD133 is expressed in hematopoietic stem cells.

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).

Subunit Structure: Interacts with CDHR1 and with actin filaments. Interacts with NAT8 and NAT8B.

Post-translational Modifications: Isoform 1 and isoform 2 are glycosylated. Acetylation at Lys-225, Lys-257 and Lys-264 by NAT8 and NAT8B may control PROM1 protein expression and its function in cell apoptosis.

Similarity: Belongs to the prominin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224994189
NCBI GeneID	8842
NCBI Accession #	NP_001139319.1
NCBI GenBank Nucleotide #	NM_001145847.1
UniProt Accession #	O43490; Q6SV49; Q6SV50; Q6SV51; Q6SV52; Q6SV53; Q96EN6
Molecular Weight	97 kDa
NCBI Official Full Name	prominin-1 isoform 2
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

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/cd133-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321807>