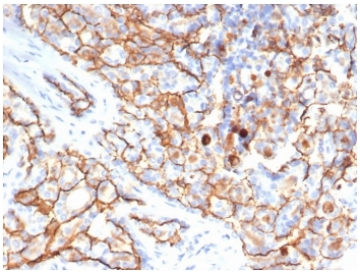
CD133 Antibody / PROM1 (Extracellular Region) [clone PROM/6316] (V9215)

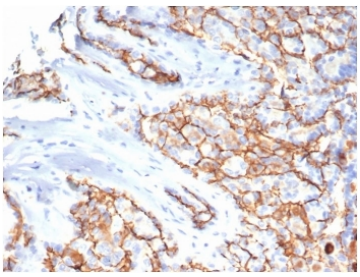
Catalog No.	Formulation	Size
V9215-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9215-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9215SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	PROM/6316
Purity	Protein A/G affinity
UniProt	O43490
Localization	Cytoplasm, cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This CD133 antibody is available for research use only.



IHC staining of FFPE human papillary renal cell carcinoma tissue with CD133 antibody (clone PROM/6316). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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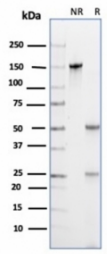

SDS-PAGE analysis of purified, BSA-free CD133 antibody (clone PROM/6316) as confirmation of integrity and purity.

Description

CD133, also known as PROML1 or Prominin, is a stem cell antigen that may be useful for the selection and expansion of hematopoietic cells and may be used as a positive marker for the characterization of trophoblast cell lines. The human CD133 gene maps to chromosome 4p15.32 and encodes an 865 amino acid protein. The CD133 gene codes for a pentaspantransmembrane glycoprotein that is expressed on primitive hematopoietic stem, progenitor, retinoblastoma, hemangioblasts and neural stem cells and developing epithelium. The 5-TM structure includes an extracellular N-terminus, two short intra- cellular loops, two large extracellular loops and an intracellular C-terminus. CD133 is a candidate gene for retinal proteins that are targeted to plasma membrane protrusions. These retinal proteins, including CD133, may influence the shedding of photoreceptive membranes from the terminal end of the outer segments of vertebrate photoreceptors, where they are phagocytosed by the retinal pigment epithelium, and represent candidates for inherited retinal degenerations.

Application Notes

Optimal dilution of the CD133 antibody should be determined by the researcher.

Immunogen

A chimeric protein composed of a portion of amino acids 180-380 and 612-765 (extracelluar regions) was used as the immunogen for the CD133 antibody. This Mab recognizes both glycosylated and non-glycosylated extracellular domains of CD133.

Storage

Aliquot the CD133 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.