

For Research Use Only

CD133 Monoclonal antibody, PBS Only

Catalog Number: 66666-1-PBS



Basic Information

Catalog Number: 66666-1-PBS	GenBank Accession Number: BC012089	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 8842	CloneNo.: 2B8A2
Source: Mouse	UNIPROT ID: O43490	
Isotype: IgG1	Full Name: prominin 1	
Immunogen Catalog Number: AG13327	Calculated MW: 97 kDa	
	Observed MW: 115 kDa, 80-90 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, Indirect ELISA

Species Specificity:
human

Background Information

CD133, also known as PROM1 (prominin-1) or AC133, belongs to the prominin family. CD133 is a transmembrane glycoprotein with an NH2-terminal extracellular domain, five transmembrane loops and a cytoplasmic tail. The expression of CD133 has been reported in hematopoietic stem cells, endothelial progenitor cells, neuronal and glial stem cells, suggesting the potential role of CD133 as a cell surface marker of adult stem cells. CD133 has also been reported as a marker of cancer stem cells in various human tumors. CD133 is a highly glycosylated protein with an apparent molecular weight of 115-120 kDa. After the treatment of the lysates with glycosidase, CD133 shifted to a protein with an apparent molecular weight of 80-90 kDa (PMID: 23150174; 20068153).

Storage

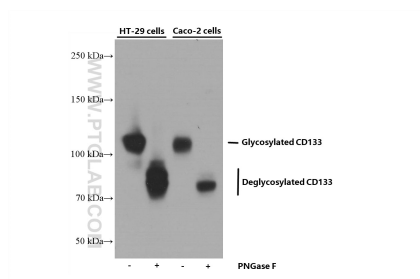
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

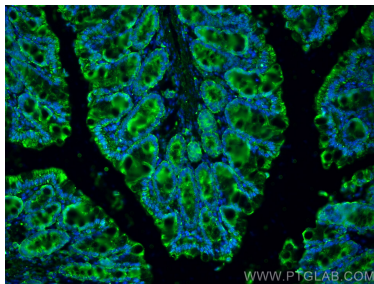
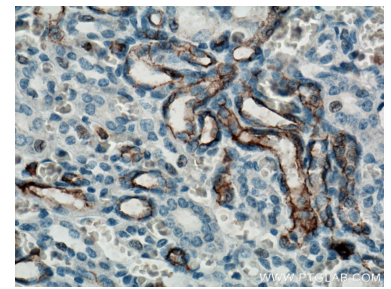
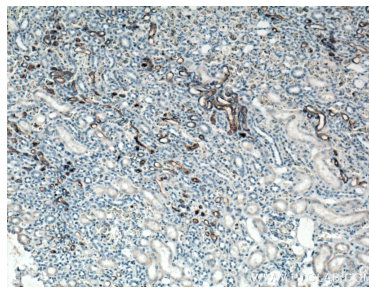
For technical support and original validation data for this product please contact:
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Selected Validation Data



Untreated and PNGase F-treated lysates of HT-29 cells and Caco-2 cells were subjected to SDS PAGE followed by western blot with 66666-1-Ig (CD133 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808). This data was developed using the same antibody clone with 66666-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse colon tissue using CD133 antibody (66666-1-Ig, Clone: 2B8A2) at dilution of 1:800 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66666-1-PBS in a different storage buffer formulation.