

For Research Use Only

CD133 Monoclonal antibody

Catalog Number: 66666-1-Ig **60 Publications**



Basic Information

Catalog Number: 66666-1-Ig	GenBank Accession Number: BC012089	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 8842	CloneNo.: 2B8A2
Source: Mouse	UNIPROT ID: O43490	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:500-1:2000 IF-P 1:400-1:1600
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, ELISA	Positive Controls: WB : HT-29 cells, Caco-2 cells
Cited Applications: WB, IHC, IF, ELISA	IHC : human kidney tissue, human breast cancer tissue, human colon cancer tissue
Species Specificity: human	IF-P : mouse colon tissue,
Cited Species: human, mouse, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Ting Tang	33173989	Mol Med Rep	IF
Chaoqun Liu	34551797	J Exp Clin Cancer Res	WB,IF
Peng Zhang	30326469	Cell Physiol Biochem	WB,IHC

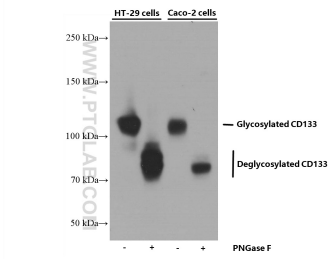
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

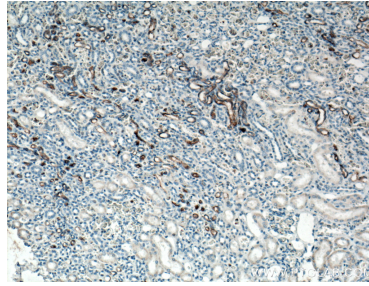
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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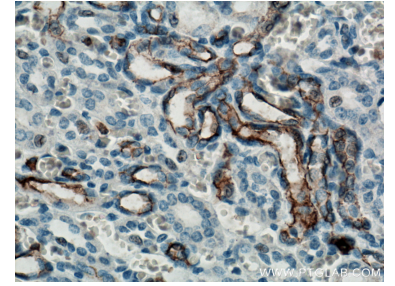
Selected Validation Data



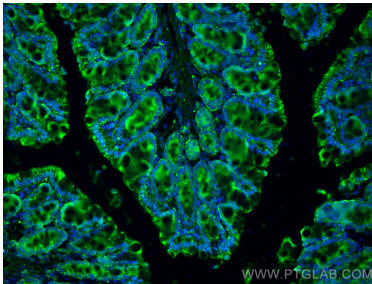
Untreated and PNGase F-treated lysates of HT-29 cells and Caco-2 cells were subjected to SDS PAGE followed by western blot with 66666-1-Ig (CD133 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66666-1-Ig (CD133 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66666-1-Ig (CD133 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 CoralLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).