

For Research Use Only

CD133 Recombinant monoclonal antibody

Catalog Number:87640-1-RR



Basic Information

Catalog Number: 87640-1-RR	GenBank Accession Number: NM_006017	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 8842	CloneNo.: 253087D1
Isotype: IgG	UNIPROT ID: O43490	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: EG3738	Full Name: prominin 1	
	Calculated MW: 97kd	
	Observed MW: 120 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Caco-2 cells, HCT 116 cells
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 -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:

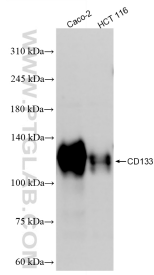
T: 4006900926

E: Proteintech-CN@ptglab.com

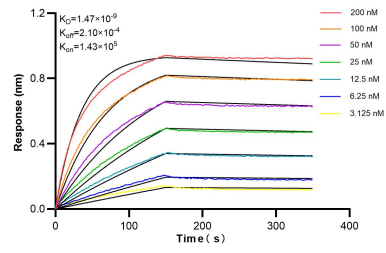
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87640-1-RR (CD133 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87640-1-RR against Human CD133 were performed. The affinity constant is 1.47 nM.