For Research Use Only

CD133 Recombinant monoclonal antibody, PBS Only

Catalog Number:87640-1-PBS

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Basic Information

Catalog Number:
87640-1-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG3738

GenBank Accession Number:
NM_006017

GeneID (NCBI):
8842

UNIPROT ID:
O43490

Full Name:
prominin 1

Calculated MW:
97kd

Observed MW:
120 kDa

Purification Method:
Protein A purification

CloneNo.:
253087D1

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

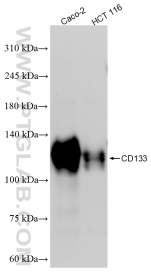
CD133, also known as PROM1 (prominin-1) or AC133, belongs to the prominin family. CD133 is a transmembrane glycoprotein with an NH2-terminal extracellular domain, five transmembrane loops and a cytoplasmic tail. The expression of CD133 has been reported in hematopoietic stem cells, endothelial progenitor 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

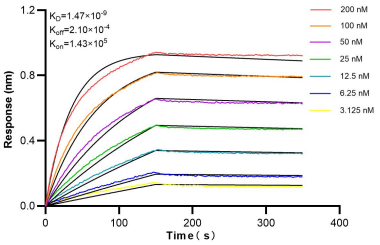
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

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

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. This data was developed using the same antibody clone with 87640-1-PBS in a different storage buffer formulation.



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