

For Research Use Only

CD133 Monoclonal antibody, PBS Only

Catalog Number: 66666-1-PBS



Basic Information

Catalog Number:

66666-1-PBS

Size:

1mg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG13327

GenBank Accession Number:

BC012089

GeneID (NCBI):

8842

UNIPROT ID:

O43490

Full Name:

prominin 1

Calculated MW:

97 kDa

Observed MW:

115 kDa, 80-90 kDa

Purification Method:

Protein A purification

CloneNo.:

2B8A2

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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

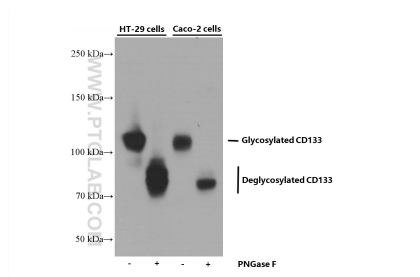
T: 4006900926

E: Proteintech-CN@ptglab.com

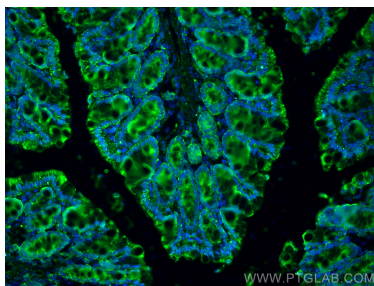
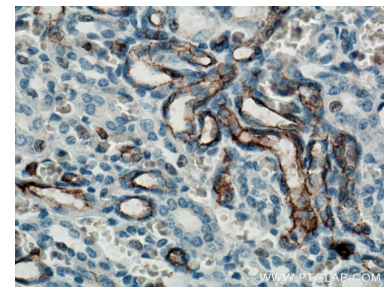
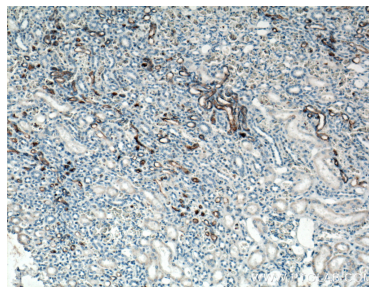
W: ptgcn.com

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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). 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.