

For Research Use Only

CD133-1,2,4,7 Polyclonal antibody

Catalog Number:19945-1-AP



Basic Information

Catalog Number:

19945-1-AP

Size:

150ul , Concentration: 300 ug/ml by Nanodrop and 167 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001145851

GeneID (NCBI):

8842

UNIPROT ID:

O43490

Full Name:

prominin 1

Calculated MW:

97 kDa

Observed MW:

115 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Species Specificity:

human, mouse

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

Positive Controls:

WB : Y79 cells, mouse lung tissue

IP : Y79 cells,

IHC : human gliomas tissue,

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. This antibody recognizes transcript variant 1,2,4,7 (UNIPROT has updated the info of isoforms) of CD133.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

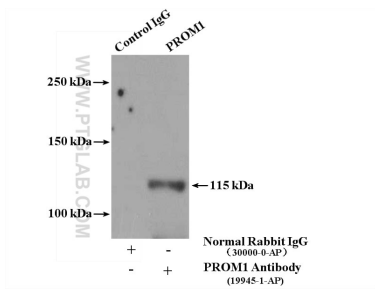
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



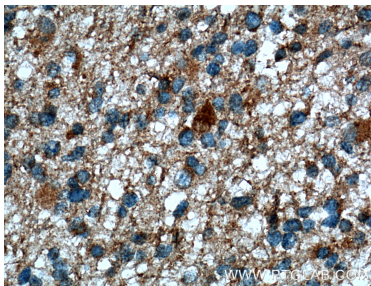
Y79 cells were subjected to SDS PAGE followed by western blot with 19945-1-AP (PROM1-1,2,3,5,7 antibody) at dilution of 1:100 incubated at room temperature for 1.5 hours.



IP result of anti-CD133-1,2,4,7 (IP:19945-1-AP, 4ug; Detection:19945-1-AP 1:300) with Y79 cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 19945-1-AP (CD133-1,2,4,7 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 19945-1-AP (CD133-1,2,4,7 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).