For Research Use Only

# CD133-1,2,4,7 Polyclonal antibody

Catalog Number:19945-1-AP

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## Basic Information

Catalog Number:
19945-1-AP

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

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_001145851

GeneID (NCBI):
8842

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 IP and 1:200-1:1000 for WB
IHC 1:50-1:500

## Applications

Tested Applications:
IHC, IP, WB,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

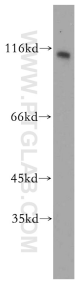
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

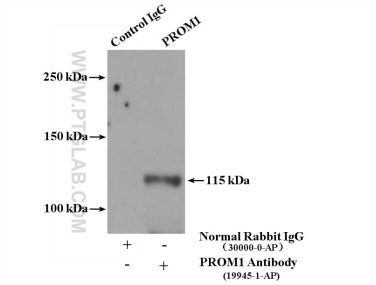
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

## Selected Validation Data

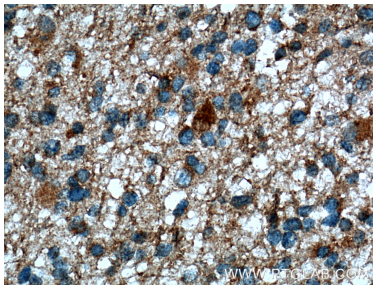



Y79 cells were subjected to SDS PAGE followed by western blot with 19945-1-AP (PROM1-1,2,3,5,7 antibody) at dilution of 1:100 incubated at room temperature for 1.5 hours.




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).