

# CD133

## Polyclonal ANTIBODY

Catalog Number: 18470-1-AP

Featured Product

40 Publications

### Basic Information

**Catalog Number:**  
18470-1-AP

**Size:**  
103 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG13328

**GenBank Accession Number:**  
BC012089

**GeneID (NCBI):**  
8842

**Full Name:**  
prominin 1

**Calculated MW:**  
97 kDa

**Observed MW:**  
115 kDa-120 kDa

**Recommended Dilutions:**  
WB 1:500-1:1000

### Applications

**Tested Applications:**  
FC, WB, ELISA

**Cited Applications:**  
FC, IF, IHC, WB

**Species Specificity:**  
human,mouse,rat

**Cited Species:**  
human, mouse, rat

**Positive Controls:**

WB : mouse kidney tissue; mouse pancreas 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.

### Notable Publications

Author	Pubmed ID	Journal	Application
Yang Liu	27685621	Cell Death Dis	WB,IF
Qiu-Zhong Pan	25267273	Stem Cells	WB, IHC
Furong Xie	26308070	Oncotarget	IHC

### 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

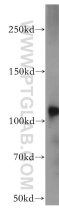
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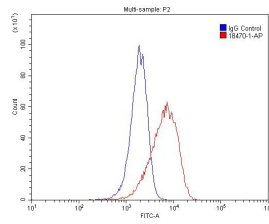
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## Selected Validation Data



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 18470-1-AP (PROM1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours



1X10<sup>6</sup> HeLa cells were stained with 0.2ug CD133 antibody (18470-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.