

# [KO Validated] CD133 Rabbit pAb

Catalog No.: A12711 **KO** **Validated** **5 Publications**

## Basic Information

### Observed MW

120kDa

### Calculated MW

97kDa

### Category

Primary antibody

### Applications

WB, IF/ICC, IP, ELISA

### Cross-Reactivity

Human, Mouse, Rat

## Background

This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of this gene is also associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IF/ICC** 1:50 - 1:200**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Immunogen Information

### Gene ID

8842

### Swiss Prot

O43490

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

RP41; AC133; CD133; MCDR2; STGD4; CORD12; PROM1; MSTP061; 33

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

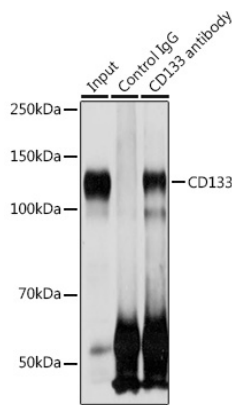
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

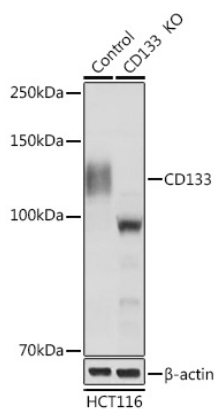
## Contact

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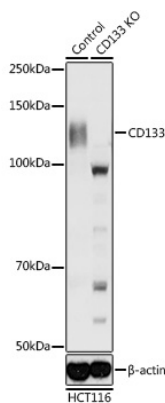
Validation Data



Immunoprecipitation analysis of 200 µg extracts of HT-29 cells using 3 µg CD133 antibody (A12711). Western blot was performed from the immunoprecipitate using CD133 antibody (A12711) at a dilution of 1:1000.



Western blot analysis of lysates from wild type (WT) and CD133 knockout (KO) HCT116 cells, using [KO Validated] CD133 Rabbit pAb (A12711) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.



Western blot analysis of lysates from HCT116 cells, using [KO Validated] CD133 Rabbit pAb (A12711) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
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