

Product datasheet for **TA380398**

CD133 (PROM1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IP, WB
Recommended Dilution:	WB,1:1000 IF/ICC,1:50 - 1:200 IP, 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 750-850 of human CD133 (NP_006008.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	92kDa/93kDa/94kDa/96kDa/97kDa
Gene Name:	prominin 1
Database Link:	Entrez Gene 8842 Human O43490



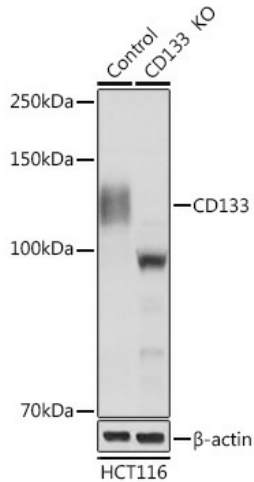
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Background:

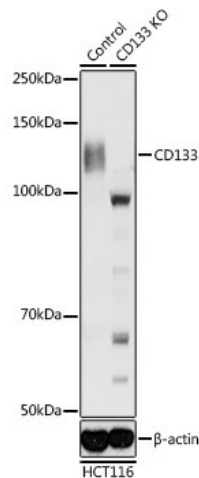
This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis 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.

Synonyms:

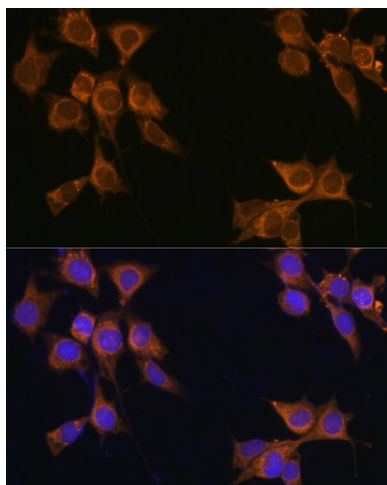
AC133; CD133; CORD12; hProminin; MCDR2; MSTP061; PROML1; RP41; STGD4

Product images:


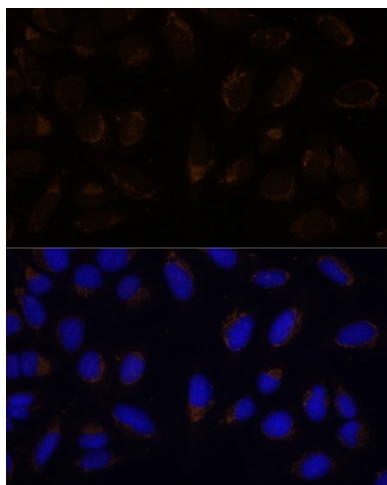
Western blot analysis of extracts from normal (control) and CD133 Rabbit pAb knockout (KO) HCT116 cells, using CD133 Rabbit pAb antibody (TA380398) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 30s.



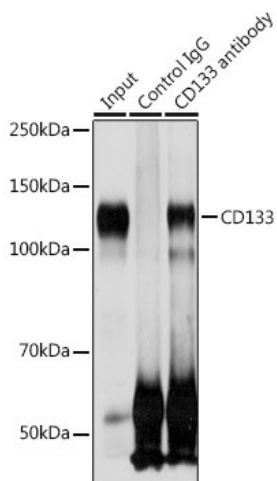
Western blot analysis of extracts of HCT116 cells, using CD133 antibody (TA380398) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 30s.



Immunofluorescence analysis of NIH/3T3 cells using CD133 antibody (TA380398) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using CD133 antibody (TA380398) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of HT-29 cells using 3ug CD133 antibody (TA380398). Western blot was performed from the immunoprecipitate using CD133 antibody (TA380398) at a dilution of 1:1000.