

# Anti-CD133 Rabbit Monoclonal Antibody

Catalog # ABO16130

## Product Information

---

|                          |                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC                                                                                                  |
| <b>Primary Accession</b> | <a href="#">O43490</a>                                                                                   |
| <b>Host</b>              | Rabbit                                                                                                   |
| <b>Isotype</b>           | IgG                                                                                                      |
| <b>Reactivity</b>        | Human                                                                                                    |
| <b>Clonality</b>         | Monoclonal                                                                                               |
| <b>Format</b>            | Liquid                                                                                                   |
| <b>Description</b>       | Anti-CD133 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human. |

## Additional Information

---

|                            |                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 8842                                                                                                                                       |
| <b>Other Names</b>         | Prominin-1, Antigen AC133, Prominin-like protein 1, CD133, PROM1, PROML1                                                                   |
| <b>Calculated MW</b>       | 97202                                                                                                                                      |
| <b>Application Details</b> | WB 1:500-1:2000<br>IHC 1:50-1:200                                                                                                          |
| <b>Source</b>              | Eukaryota                                                                                                                                  |
| <b>Contents</b>            | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                        |
| <b>Clone Names</b>         | Clone: 27P09                                                                                                                               |
| <b>Immunogen</b>           | A synthesized peptide derived from human CD133                                                                                             |
| <b>Purification</b>        | Affinity-chromatography                                                                                                                    |
| <b>Storage</b>             | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

---

|                 |                                                                                                                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>     | PROM1                                                                                                                                                                                                                              |
| <b>Synonyms</b> | PROML1                                                                                                                                                                                                                             |
| <b>Function</b> | May play a role in cell differentiation, proliferation and apoptosis (PubMed: <a href="#">24556617</a> ). Binds cholesterol in cholesterol- containing plasma membrane microdomains and may play a role in the organization of the |

apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis. Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent manner (PubMed:[20818439](#)).

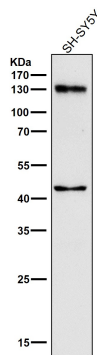
## Cellular Location

Apical cell membrane; Multi-pass membrane protein. Cell projection, microvillus membrane; Multi-pass membrane protein. Cell projection, cilium, photoreceptor outer segment Endoplasmic reticulum. Endoplasmic reticulum-Golgi intermediate compartment. Note=Found in extracellular membrane particles in various body fluids such as cerebrospinal fluid, saliva, seminal fluid and urine

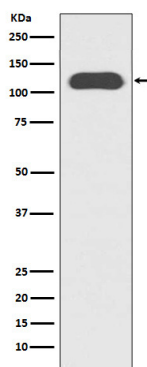
## Tissue Location

Isoform 1 is selectively expressed on CD34 hematopoietic stem and progenitor cells in adult and fetal bone marrow, fetal liver, cord blood and adult peripheral blood. Isoform 1 is not detected on other blood cells. Isoform 1 is also expressed in a number of non-lymphoid tissues including retina, pancreas, placenta, kidney, liver, lung, brain and heart. Found in saliva within small membrane particles. Isoform 2 is predominantly expressed in fetal liver, skeletal muscle, kidney, and heart as well as adult pancreas, kidney, liver, lung, and placenta. Isoform 2 is highly expressed in fetal liver, low in bone marrow, and barely detectable in peripheral blood Isoform 2 is expressed on hematopoietic stem cells and in epidermal basal cells (at protein level). Expressed in adult retina by rod and cone photoreceptor cells (at protein level)

## Images



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of CD133 expression in HT-29 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.