

# Anti-CD133 Antibody [PSH26-71] - BSA and Azide free

## HA752039



|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| <b>Product Type:</b>       | Recombinant Rabbit monoclonal IgG, primary antibodies |
| <b>Species reactivity:</b> | Human                                                 |
| <b>Applications:</b>       | WB, IHC-P, FC                                         |
| <b>Molecular Wt:</b>       | Predicted band size: 97 kDa                           |
| <b>Clone number:</b>       | PSH26-71                                              |

**Description:** CD133 antigen, also known as prominin-1, is a glycoprotein that in humans is encoded by the PROM1 gene. It is a member of pentaspan transmembrane glycoproteins, which specifically localize to cellular protrusions. When embedded in the cell membrane, the membrane topology of prominin-1 is such that the N-terminus extends into the extracellular space and the C-terminus resides in the intracellular compartment. The protein consists of five transmembrane segments, with the first and second segments and the third and fourth segments connected by intracellular loops while the second and third as well as fourth and fifth transmembrane segments are connected by extracellular loops. While the precise function of CD133 remains unknown, it has been proposed that it acts as an organizer of cell membrane topology.

**Positive control:** Caco-2 (Human colorectal adenocarcinoma cell) cell lysate, HT-29 (Human colorectal adenocarcinoma cell) cell lysate.

**Subcellular location:** Endoplasmic reticulum. Plasma membrane. Cell projection.

**Database links:** SwissProt: O43490 Human

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at 2-8°C. Avoid freeze.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

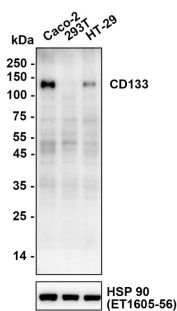
Technical: 0086-571-89986345

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images



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**Fig1:** This data was developed using HA724636, the same antibody clone in a different buffer formulation.

Western blot analysis of CD133 on different lysates with Rabbit anti-CD133 antibody (HA724636) at 1/1,000 dilution.

Lane 1: Caco-2 (Human colorectal adenocarcinoma cell) cell lysate

Lane 2: 293T (Human embryonic kidney cell) cell lysate

Lane 3: HT-29 (Human colorectal adenocarcinoma cell) cell lysate

Lysates/proteins at 15 µg/Lane.

Exposure time: 1 minute 34 seconds; ECL: K1802

293T is a negative control (PMID: 30783186).

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: HA724636, 1/1,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 97 kDa

Observed band size: 120 kDa

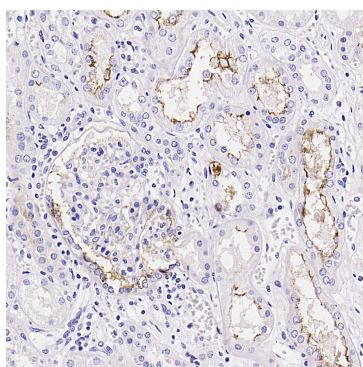
**Fig2:** This data was developed using HA724636, the same antibody clone in a different buffer formulation.

Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Kidney

Sample: Paraffin-embedded section



Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724636, 1/500, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

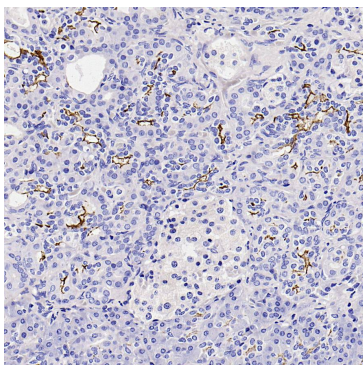
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**Fig3:** This data was developed using HA724636, the same antibody clone in a different buffer formulation.

Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Spleen

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724636, 1/500, 1 hour at room temperature.

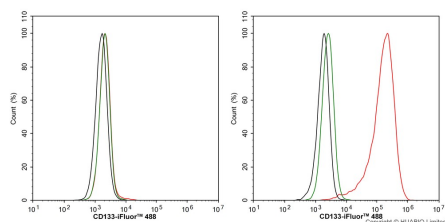
Secondary antibody: HA1119, 20 minutes at room temperature.

**Fig4:** This data was developed using HA724636, the same antibody clone in a different buffer formulation.

Application: Flow Cytometry

Species: Human

Sample: 293T (Human embryonic kidney cells) (Left, Negative control) / Caco-2 (Human colorectal adenocarcinoma cell) (Right)



Blocking: 1% BSA + 10% normal goat serum, 15 minutes at room temperature.

Antibody dilution buffer: 1x PBS.

Primary antibody: HA724636 (1/500, Red) compared with Rabbit IgG Isotype Control (HA722127, Green), 15 minutes at room temperature.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 15 minutes at room temperature.

Negative control: 293T (PMID: 30783186).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Kim MY et al. Accumulation of low-dose BIX01294 promotes metastatic potential of U251 glioblastoma cells. *Oncol Lett* 13:1767-1774 (2017).
2. Xi G et al. Targeting CD133 improves chemotherapeutic efficacy of recurrent pediatric pilocytic astrocytoma following prolonged chemotherapy. *Mol Cancer* 16:21 (2017).

