

## Anti-CD133 Polyclonal Antibody

### Product Details

|                   |                                       |
|-------------------|---------------------------------------|
| Ig Type:          | IgG                                   |
| Reactivity:       | Human, Mouse (predicted: Rat)         |
| Molecular Weight: | Theoretical: 95 kDa. Actual: 120 kDa. |
| Purification:     | Protein A purified                    |

### Applications

#### 1. Sample:

SP2/0 Cell (Mouse) Lysate at 40  $\mu$ g

Colon carcinoma (Human) Lysate at 40  $\mu$ g

Primary: Anti-CD133 (TMAB-03839) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG at 1/5000 dilution

Predicted band size: 95 kD

Observed band size: 95/120 kD

2. The blue histogram is unstained cells (HepG 2).

The Orange histogram is cells stained with Rabbit IgG/PE

The green histogram is cells stained with Rabbit Anti-CD133/PE Conjugated antibody (TMAB-03839-PE).

Isotype control: Cell lines treated with Rabbit IgG/PE instead of the primary antibody to confirm that primary antibody binding is specific. 2  $\mu$ g/5 $\mu$ g/10 $\mu$ g in 100 $\mu$ L 1 X PBS containing 0.5% BSA.

3. The blue histogram is unstained cells (HepG 2).

The Orange histogram is cells stained with Rabbit IgG/FITC

The green histogram is cells stained with Rabbit Anti-CD133/FITC Conjugated antibody (TMAB-03839-FITC).

Isotype control: Cell lines treated with Rabbit IgG/FITC instead of the primary antibody to confirm that primary antibody binding is 2  $\mu$ g/5 $\mu$ g/1  $\mu$ g in 100 $\mu$ L 1 X PBS containing 0.5% BSA.

#### Verified Activity:

4. Blank control: Mouse kidney.

Primary Antibody (green line): Rabbit Anti-CD133 antibody (TMAB-03839)

Dilution: 2  $\mu$ g /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-AF488

Dilution: 1  $\mu$ g /test.

Protocol

The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

5. Sample:

Lane 1: SP2/0 (Mouse) Cell Lysate at 30  $\mu$ g

Lane 2: Lovo (Human) Cell Lysate at 30  $\mu$ g

Lane 3: SW480 (Human) Cell Lysate at 30  $\mu$ g

Lane 4: Uterus (Mouse) Lysate at 40  $\mu$ g

Primary: Anti-CD133 (TMAB-03839) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 110 kD

## A DRUG SCREENING EXPERT

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Observed band size: 115 kD

Application: WB,FCM

Recommended WB: 1:500-2000; FCM: 1µg/Test

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human CD133

Antigen Species: Human

Gene ID: 8842

Uniprot ID: O43490

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### Research 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. [provided by RefSeq, Mar 2009]

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