

Anti-CD133/PROM1 Polyclonal Antibody

Product Details

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

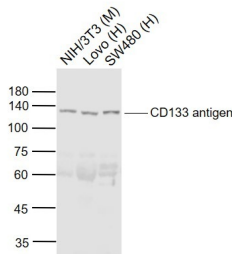
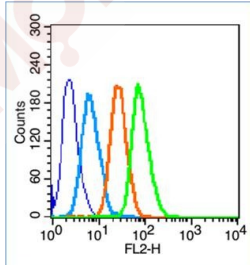
Applications

1. Blank control (blue line): Hep G2 (fixed with 70% ethanol Overnight at 4°C. Cells stained with Primary Antibody for 30 min at room temperature).
Primary Antibody (green line): Rabbit Anti-CD133 antibody (TMAB-00332), Dilution: 1 µg/10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1 µg/test.

Verified Activity:

2. Sample:

Lane 1: NIH/3T3 (Mouse) Cell Lysate at 30 µg
Lane 2: LOVO (Human) Cell Lysate at 30 µg
Lane 3: SW480 (Human) Cell Lysate at 30 µg
Primary: Anti-CD133 antigen (TMAB-00332) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 110 kDa
Observed band size: 120 kDa



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

Properties

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

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human CD133

Antigen Species: Human

Gene ID: 8842

Uniprot ID: O43490

Synonyms: Prominin-1;PROM1;Antigen AC133;CD133;Prominin-like protein 1;PROML1

Biology Area: Neural Stem Cell marker, Surface Molecules, Surface Molecules

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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