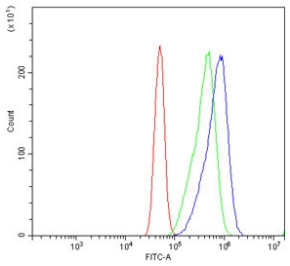
PROM1 Antibody / CD133 [clone 8B6] (RQ6236)

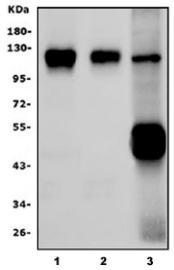
Catalog No.	Formulation	Size
RQ6236	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	8B6
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O43490
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This PROM1 antibody is available for research use only.



Flow cytometry testing of human Caco-2 cells with PROM1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PROM1 antibody.



Western blot testing of 1) human Caco-2, 2) human SW620 and 3) mouse kidney lysate with PROM1 antibody. Expected molecular weight: 97 kDa-130 kDa depending on glycosylation level.

Description

Prominin-1, also known as CD133, is a glycoprotein that in humans is encoded by the PROM1 gene. It is mapped to 4p15.32. Prominin-1 is a member of pentaspan transmembrane glycoproteins (5-transmembrane, 5-TM), which specifically localize to cellular protrusions. 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. It has been proposed to act as an organizer of cell membrane topology. Prominin-1 was expressed not only on metastatic colon cancer cells, but also on differentiated colonic epithelium in both adult mice and humans.

Application Notes

Optimal dilution of the PROM1 antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids P531-H865) was used as the immunogen for the PROM1 antibody.

Storage

After reconstitution, the PROM1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.