

Anti-Hu CD133 Purified PROM1 Monoclonal Antibody

Catalog Number: M01767

About PROM1

CD133 (prominin 1) is a 5-transmembrane glycoprotein with extracellular N- and intracellular C-terminus. CD133 function remains to be elucidated, but it can be used as a cancer stem cell marker. Its expression pattern in progenitor cells is similar to CD34, i.e. on hematopoietic stem cells in bone marrow, cord blood, neural stem cells, retinoblastoma, or endothelial precursor cells (not mature endothelial cells). It is being used for identification and isolation of hematopoietic stem cells, including isolation for stem cell transplantation. Expression of CD133 correlates with differentiation of human colon cancer cells.

Overview

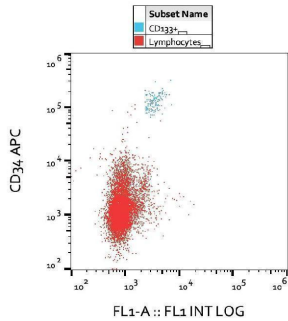
Product Name	Anti-Hu CD133 Purified PROM1 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD133 Purified PROM1 Monoclonal Antibody (Catalog# M01767). Tested in Flow Cytometry, WB, IHC application(s). This antibody reacts with Human.
Application	Flow Cytometry, IHC, WB
Clonality	Monoclonal W6B3C1
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	O43490

Technical Details

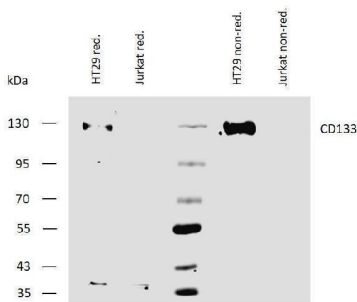
Immunogen	WERI-RB-1 retinoblastoma cell line. The mouse monoclonal antibody W6B3C1 recognizes the extracellular glycosylated epitope 1 on human CD133 (CD133/1), a 120 kDa glycoprotein of prominin family, expressed e.g. on progenitor cells. This antibody is important for identification of stem cells and tumor cells.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Flow cytometry: 1-4 ug/ml.

Western blotting: 1-2 ug/ml; non-reducing conditions preferred.

Anti-Hu CD133 Purified PROM1 Monoclonal Antibody (M01767) Images



Flow cytometry analysis (surface staining) of human peripheral whole blood showing CD133 positive stem cells (blue) and lymphocytes (red) stained using anti-CD133 (W6B3C1) purified, GAM-FITC.



Western blotting analysis of human CD133 using mouse monoclonal antibody W6B3C1 on lysates of HT29 cells and Jurkat cells (negative control) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. CD133 was detected around 125 kDa.

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