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Product datasheet for TA813750M

CD133 (PROM1) Mouse Monoclonal Antibody [Clone ID: OTI5G10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5G10
Applications:	FC, WB
Recommended Dilution:	WB 1:1000, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PROM1 (NP_006008) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	97 kDa
Gene Name:	prominin 1
Database Link:	NP_006008 Entrez Gene 8842 Human O43490

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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].

Synonyms: AC133; CD133; CORD12; MCDR2; MSTP061; PROML1; RP41; STGD4

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Product images:

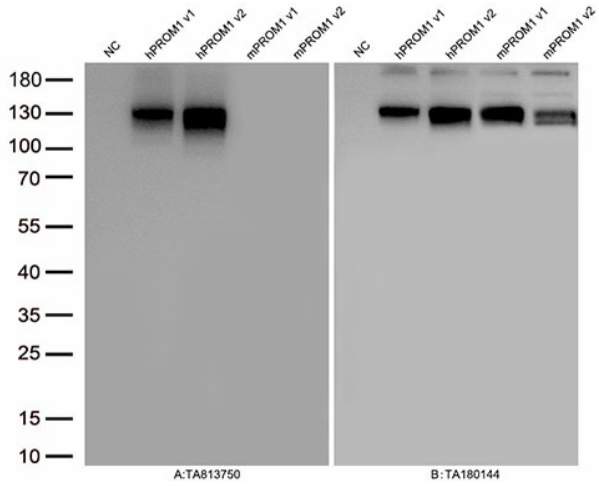
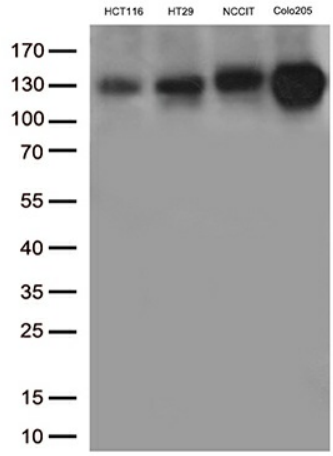
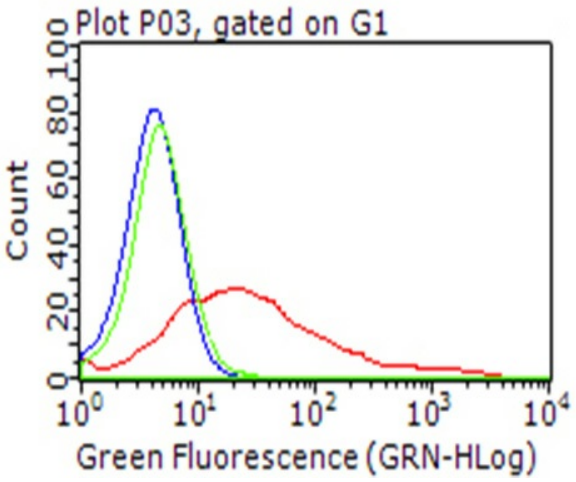


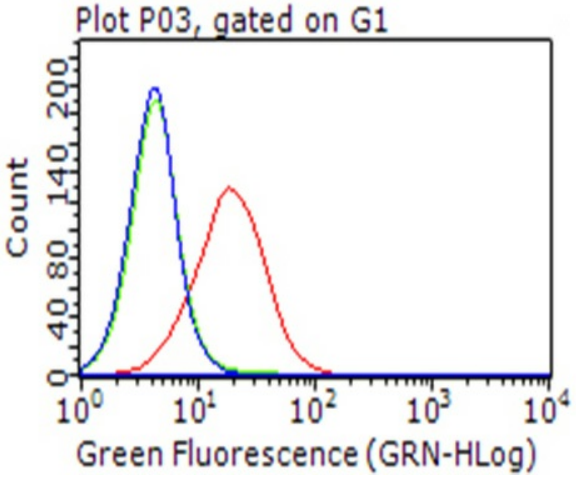
Figure A, Western blot analysis of overexpressed lysates (25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , human PROM1 plasmid ([RC221611], hPROM1 v1), human PROM1 plasmid ([RC227854], hPROM1 v2), mouse PROM1 plasmid ([MR225613], mPROM1 v1), mouse PROM1 plasmid ([MR225615], mPROM1 v2) using anti-PROM1 antibody [TA813750] (1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



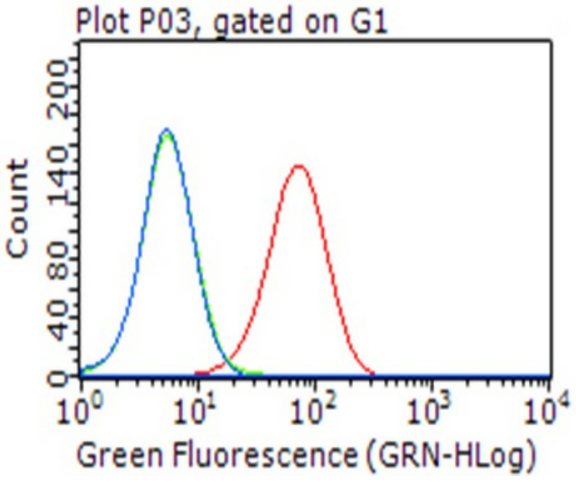
Western blot analysis of extracts (35ug) from 4 cell lines lysates by using anti-PROM1 monoclonal antibody. (1:1000)



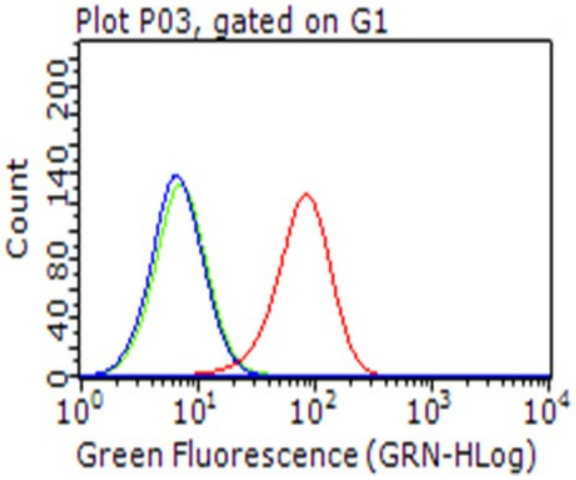
Flow cytometric analysis of living 293T cells transfected with PROM1 overexpression plasmid ([RC221611]), Red)/empty vector ([PS100001], Blue) using anti-PROM1 antibody ([TA813750]). Cells incubated with a non-specific antibody (Green) were used as isotype control. (1:100)



Flow cytometric analysis of living HT29 cells, using anti-PROM1 antibody([TA813750], Red), compared to an isotype control (green), and a PBS control (blue).(1:100)



Flow cytometric analysis of living HCT116 cells, using anti-PROM1 antibody([TA813750], Red), compared to an isotype control (green), and a PBS control (blue).(1:100)



Flow cytometric analysis of living NCCIT cells, using anti-PROM1 antibody([TA813750], Red), compared to an isotype control (green), and a PBS control (blue).(1:100)