

Product datasheet

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ARG54139 anti-Prominin 1 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody recognizes Prominin 1

Tested Reactivity Hu
Tested Application WB

Host Mouse

Clonality Monoclonal

Isotype IgG2b

Target Name Prominin 1

Species Human

Immunogen Purified recombinant human Prominin-1 protein fragments expressed in E.coli.

Conjugation Un-conjugated

Alternate Names CORD12; CD133; RP41; Antigen AC133; MCDR2; CD antigen CD133; PROML1; AC133; Prominin-like

protein 1; Prominin-1; MSTP061; STGD4

Application Instructions

Application table	Application	Dilution
	WB	1:3000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	133 kDa	

Properties

Form Liquid

Purification Affinity purified

Buffer PBS (pH 7.4), 0.02% Sodium azide, 0.1mg/ml BSA and 50% Glycerol

Preservative 0.02% Sodium azide

Stabilizer 0.1mg/ml BSA, 50% Glycerol

Concentration 12 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 8842 Human

Swiss-port # O43490 Human

Gene Symbol PROM1

Gene Full Name prominin 1

Background Binds cholesterol in cholesterol-containing plasma membrane microdomains. Proposed to play a role in

apical plasma membrane organization of epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis. Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent

manner.

Function May play a role in cell differentiation, proliferation and apoptosis (PubMed:24556617). Binds

cholesterol in cholesterol-containing plasma membrane microdomains and may play a role in the organization of the apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis. Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent

manner (PubMed:20818439). [UniProt]

Research Area Cancer antibody; Cell Death antibody; Gene Regulation antibody

Calculated Mw 97 kDa

PTM Isoform 1 and isoform 2 are glycosylated.

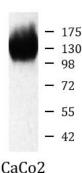
Acetylation at Lys-225, Lys-257 and Lys-264 by NAT8 and NAT8B may control PROM1 protein expression

and its function in cell apoptosis.

Cellular Localization Cell projection > cilium > photoreceptor outer segment. Isoform 1: Apical cell membrane; Multi-pass

membrane protein By similarity. Cell projection > microvillus membrane; Multi-pass membrane protein.

Images



ARG54139 anti-Prominin 1 antibody WB image

Western blot: CaCo2 cell lysate stained with ARG54139 anti-Prominin 1 antibody at 1:3000 dilution.

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