

## 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

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Database links	<a href="#">GeneID: 8842 Human</a> <a href="#">Swiss-port # O43490 Human</a>
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

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