

ARG54139 anti-Prominin 1 antibody

Package: 100 µl
Store at: -20°C

Summary

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|---------------------|---|
| 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

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| 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 | 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

