

## ARG43761 anti-Prominin 1 antibody [8B6]

Package: 50 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Mouse Monoclonal antibody [8B6] recognizes Prominin 1   |
| Tested Reactivity   | Hu, Ms  |
| Tested Application  | FACS, WB  |
| Host                | Mouse   |
| Clonality           | Monoclonal  |
| Clone               | 8B6   |
| Isotype             | IgG2a   |
| Target Name         | Prominin 1  |
| Species             | Human   |
| Immunogen           | Recombinant protein corresponding to a.a. P531 - H865 of Human Prominin-1   |
| 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                       |
|                   | FACS   | 1 - 3 µg/10 <sup>6</sup> cells |
|                   | WB   | 1:500 - 1:2000                 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                                |
| Observed Size     | 100~120 kDa  |                                |

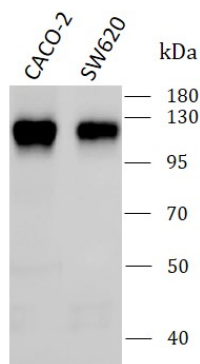
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purification with immunogen.   |
| Buffer              | 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> and 4% Trehalose   |
| Stabilizer          | 4% Trehalose  |
| Concentration       | 0.5 mg/ml   |
| Storage instruction | For continuous use, store undiluted antibody [8B6] 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 [8B6] solution should be gently mixed before use. |

## Bioinformation

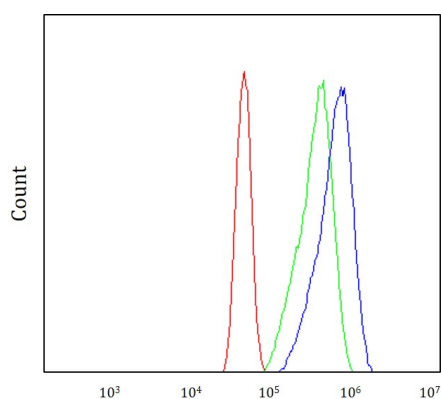
|                |  |
|----------------|--|
| Gene Symbol    | PROM1  |
| Gene Full Name | prominin 1   |
| Background     | This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function 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] |
| Function       | May play a role in cell differentiation, proliferation and apoptosis. 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. [UniProt]   |
| Calculated Mw  | 97 kDa   |
| PTM            | Isoform 1 and isoform 2 are glycosylated.<br>Acetylation at Lys-225, Lys-257 and Lys-264 by NAT8 and NAT8B may control PROM1 protein expression and its function in cell apoptosis.  |

## Images



ARG43761 anti-Prominin 1 antibody [8B6] WB image

Western blot: CACO-2 and SW620 stained with ARG43761 anti-Prominin 1 antibody [8B6] at 0.5 µg/mL dilution.



ARG43761 anti-Prominin 1 antibody [8B6] FACS image

Flow Cytometry: CACO-2 stained with ARG43761 anti-Prominin 1 antibody [8B6] at 1 µg / 10<sup>6</sup> cells dilution.

ARG43761 anti-Prominin 1 antibody [8B6] WB image

Western blot: Mouse kidney stained with ARG43761 anti-Prominin 1 antibody [8B6] at 0.5 µg/mL dilution.

