

## Product datasheet

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# ARG57657 anti-Prominin 1 antibody

Package: 50 μl Store at: -20°C

#### **Summary**

Product Description Rabbit Polyclonal antibody recognizes Prominin 1

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IP, WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name Prominin 1
Species Human

Immunogen Synthetic peptide 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
	ICC/IF	1:50 - 1:200
	IP	Assay-dependent
	WB	1:1000 - 1:3000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse kidney	

#### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

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

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.

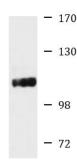
Acetylation at Lys-225, Lys-257 and Lys-264 by NAT8 and NAT8B may control PROM1 protein expression

and its function in cell apoptosis. [UniProt]

#### **Images**



Western blot:  $25~\mu g$  of Mouse kidney lysate stained with ARG57657 anti-Prominin 1 antibody at 1:3000 dilution.



Mouse kidney