

## Rabbit anti-Human PROM1 Polyclonal Antibody | anti-PROM1 antibody

PROM1 Antibody

|                               |                       |                            |                                                    |
|-------------------------------|-----------------------|----------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA232325</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|-------------------------------|-----------------------|----------------------------|----------------------------------------------------|

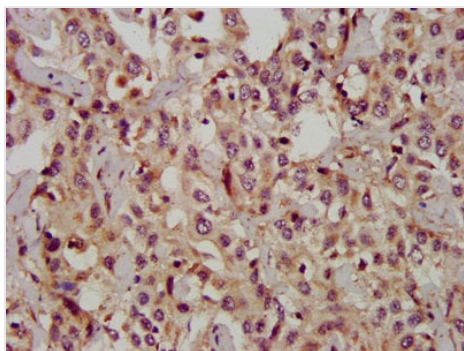
### PRODUCT SYNONYMS

PROM1; Polyclonal Antibody; PROM1 Antibody; Prominin-1; Antigen AC133; Prominin-like protein 1; CD133; PROML1; MSTP061; anti-PROM1 antibody

### PRODUCT SPECIFICATIONS

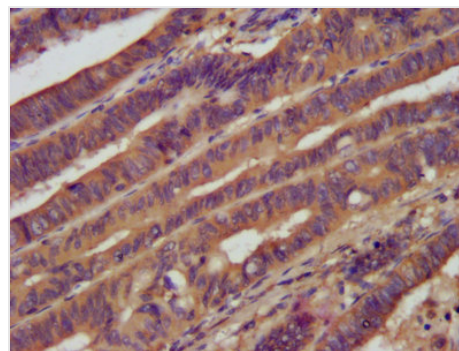
|                                                 |                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                         |
| Reactivity                                      | Human                                                                                                          |
| Clonality                                       | Polyclonal                                                                                                     |
| Isotype                                         | IgG                                                                                                            |
| Purity/Purification                             | >95%, Protein G purified                                                                                       |
| Form/Format                                     | Liquid                                                                                                         |
| Sequence Length                                 | 856                                                                                                            |
| Applicable Applications for anti-PROM1 antibody | IHC (Immunohistochemistry), ELISA                                                                              |
| Species                                         | Human                                                                                                          |
| Immunogen                                       | Recombinant human Prominin-1 protein (508-792AA)                                                               |
| Conjugate                                       | Non-conjugated                                                                                                 |
| Buffer                                          | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4                               |
| Preparation and Storage                         | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |

### IMAGES



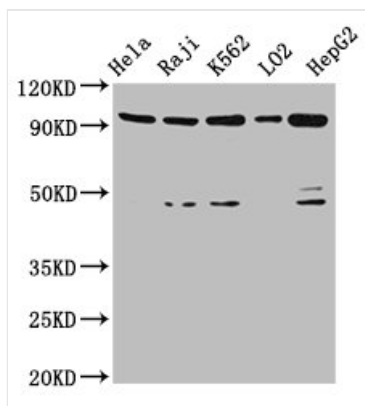
#### IHC (Immunohistochemistry)

IHC image of AAA232325 diluted at 1:1200 and staining in paraffin-embedded human liver cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



#### IHC (Immunohistochemistry)

IHC image of AAA232325 diluted at 1:1200 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



#### WB (Western Blot)

Western Blot Positive WB detected in: HeLa whole cell lysate, Raji whole cell lysate, K562 whole cell lysate, LO2 whole cell lysate, HepG2 whole cell lysate  
All lanes: PROM1 antibody at 4.8 µg/ml  
Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution  
Predicted band size: 98, 97, 94, 93, 95 kDa  
Observed band size: 98 kDa

## ADDITIONAL INFORMATION

### Related Product Information for anti-PROM1 antibody

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).

## NCBI AND UNIPROT INFORMATION

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| NCBI GI #                        | 224994189                                                 |
| NCBI GeneID                      | 8842                                                      |
| NCBI Accession #                 | NP_001139319.1                                            |
| NCBI GenBank Nucleotide #        | NM_001145847.1                                            |
| UniProt Accession #              | O43490; Q6SV49; Q6SV50; Q6SV51; Q6SV52; Q6SV53; Q96EN6    |
| Molecular Weight                 | 94,605 Da                                                 |
| NCBI Official Full Name          | prominin-1 isoform 2                                      |
| NCBI Official Synonym Full Names | prominin 1                                                |
| NCBI Official Symbol             | PROM1                                                     |
| NCBI Official Synonym Symbols    | RP41; AC133; CD133; MCDR2; STGD4; CORD12; PROML1; MSTP061 |
| NCBI Protein Information         | prominin-1                                                |
| UniProt Protein Name             | Prominin-1                                                |
| UniProt Gene Name                | <b>PROM1</b>                                              |
| UniProt Synonym Gene Names       | PROML1                                                    |
| UniProt Entry Name               | PROM1_HUMAN                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.