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# **Human Podoplanin antibody**

Catalog Number: ATGA0571

#### **PRODUCT INFORMATION**

### Catalog number

ATGA0571

#### Clone No.

5E2

### **Product type**

Monoclonal antibody

#### UnitProt No.

Q86YL7

#### **NCBI Accession No.**

NP 006465

#### **Alternative Names**

TIA2, T1A, T1 ALPHA GENE, T1 alpha, Podoplanin, PDPN, PA2.26 antigen, OTTHuMP00000044504, OTTHuMP0000009640, OTS8, Lung type I cell membrane-associated glycoprotein isoform a, Lung type I cell membrane associated glycoprotein isoform a AGGRuS, Lung type I cell membrane associated glycoprotein, hT1alpha1, HT1A-1, GP40, Gp38, GP36, Glycoprotein 36 KD

#### **Additional Information**

This product was produced from tissue culture supernatant.

### **PRODUCT SPECIFICATION**

### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human PDPN (1-206aa) purified from E. coli

#### Isotype

IgG2b kappa

#### **Purification Note**

By protein-A affinity chromatography

### **Application**

ELISA, WB, ICC/IF, FACS



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#### **Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Podoplanin (PDPN) is a small mucin-like transmembrane protein, widely expressed in various specialized celltypes throughout the body. This is a type-I integral membrane glycoprotein with diverse distribution in humantissues. The physiological function of this protein may be related to its mucin-type character.

#### **General References**

Wicki A., et al. (2006) Br J Cancer. 96(1):1-5. Zimmer G., et al. (1999) Biochem J. 341(Pt2):277-84.

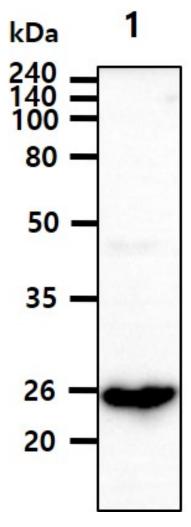
### **DATA**

Western blot analysis (WB)



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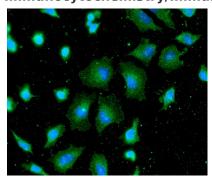
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The recombinant protein (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Podoplanin antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant human Podoplanin protein

## Immunocytochemistry/Immunofluorescence (ICC/IF)



Flow cytometry (FACS)

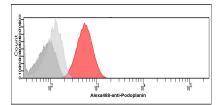
ICC/IF analysis of Podoplanin in HeLa cells. The cell was stained with ATGA0571 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



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Flow cytometry analysis of Podoplanin in HeLa cells. The cell was stained with ATGA0571 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

