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Human Podoplanin/PDPN antibody

Catalog Number: ATGA0418

PRODUCT INFORMATION

Catalog number

ATGA0418

Clone No.

AT56F7

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

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 (99-207aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

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



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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

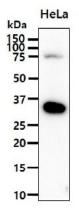
Podoplanin (PDPN) is a small mucin-like transmembrane protein, widely expressed in various specialized cell types throughout the body. This is a type-I integral membrane glycoprotein with diverse distribution in human tissues. The physiological function of this protein may be related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor.

General References

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

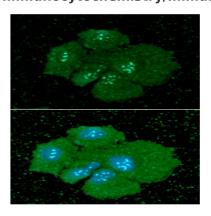
DATA

Western blot analysis (WB)



The HeLa cell lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PDPN antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PDPN in Hep3B cells. The cell was stained with ATGA0418 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

