

Rabbit anti-Mouse, Rat Podoplanin/gp36/Pdpn Polyclonal Antibody | anti-Pdpn antibody

Anti-Podoplanin/gp36/Pdpn Antibody

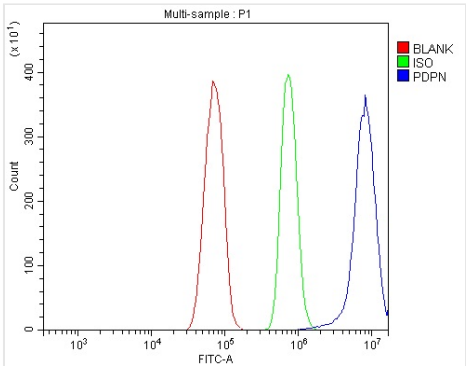
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19233	Rabbit	Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Podoplanin/gp36/Pdpn; Polyclonal Antibody; Anti-Podoplanin/gp36/Pdpn Antibody; Pdpn; Gp38; Ots8; Podoplanin; Glycoprotein 38; OTS-8; PA2. 26 antigen; Transmembrane glycoprotein E11; E11; podoplanin; anti-Pdpn antibody

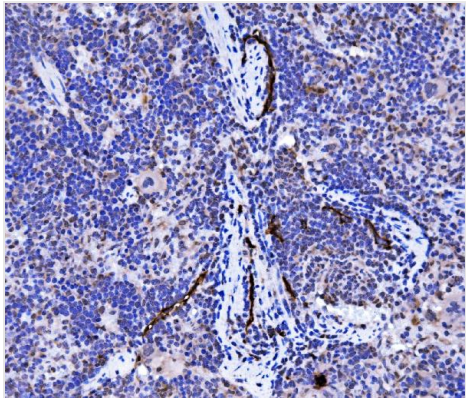
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-Pdpn antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: Concentration: 0.1-0.25ug/ml Tested Species: Mouse, Rat IHC-P: Concentration: 2-5ug/ml Tested Species: Mouse, Rat ICC/IF: Concentration: 5ug/ml Tested Species: Mouse FC: Concentration: 1-3ug/1x10⁶ cells Tested Species: Rat Direct ELISA: Concentration: 0.1-0.5ug/ml Tested Species: Mouse Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Immunogen	E Coli-derived mouse Podoplanin/gp36/Pdpn recombinant protein (Position: T24-P172).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	We recommend Enhanced Chemiluminescent Kit with anti-Rabbit IgG () for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit () for IHC(P) and ICC.
Preparation and Storage	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.



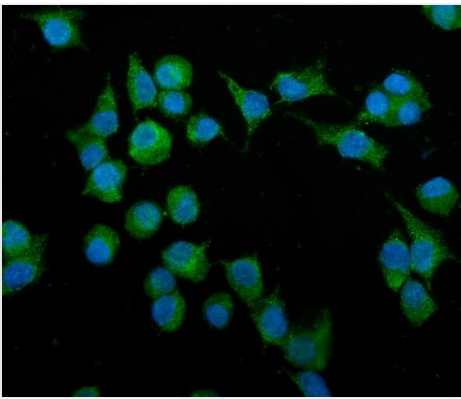
FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of RH35 cells using anti-Podoplanin/gp36/Pdpn antibody (AAA19233).Overlay histogram showing RH35 cells stained with AAA19233 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Podoplanin/gp36/Pdpn Antibody (AAA19233, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



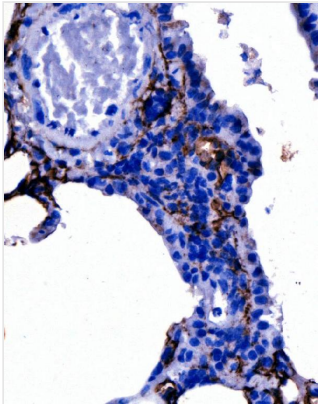
IHC (Immunohistochemistry)

Figure 3. IHC analysis of Podoplanin/gp36/Pdpn using anti-Podoplanin/gp36/Pdpn antibody (AAA19233).Podoplanin/gp36/Pdpn was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Podoplanin/gp36/Pdpn Antibody (AAA19233) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



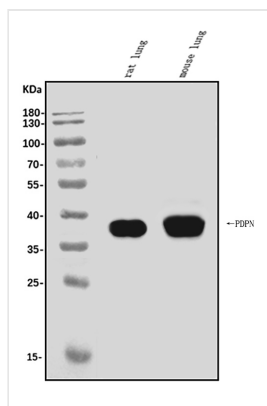
IF (Immunofluorescence)

Figure 4. IF analysis of Podoplanin/gp36/Pdpn using anti- Podoplanin/gp36/Pdpn antibody (AAA19233).Podoplanin/gp36/Pdpn was detected in immunocytochemical section of HEPA1-6 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- Podoplanin/gp36/Pdpn Antibody (AAA19233) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Podoplanin/gp36/Pdpn using anti-Podoplanin/gp36/Pdpn antibody (AAA19233).Podoplanin/gp36/Pdpn was detected in paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Podoplanin/gp36/Pdpn Antibody (AAA19233) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Podoplanin/gp36/Pdpn using anti-Podoplanin/gp36/Pdpn antibody (AAA19233). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: rat lung tissue lysates. Lane 2: mouse lung tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Podoplanin/gp36/Pdpn antigen affinity purified polyclonal antibody (Catalog # AAA19233) at 0.25 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # with Tanon 5200 system). A specific band was detected for Podoplanin/gp36/Pdpn at approximately 37KD. The expected band size for Podoplanin/gp36/Pdpn is at 37KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Pdpn antibody	Podoplanin(PDPN) is a protein that in humans is encoded by the PDPN gene. This gene encodes a type-I integral membrane glycoprotein with diverse distribution in human tissues. The International radiation Hybrid mapping consortium mapped the T1A gene to chromosome 1. It has got 162 amino acid protein which is a typical type I membrane glycoprotein, with an N-terminal signal sequence, a signal sequence cleavage site, a C-terminal hydrophobic stretch, and a short cytoplasmic tail. Northern blot analysis detected a 1.2-kb T1A2 transcript only in lung. It has been described as a differentiation antigen and influenza-virus receptor, and a marker of lung injury.
References	1. Zimmer G, Oeffner F, Von Messling V, Tschernig T, Groness HJ, Klenk HD, Herrler G (Sep 1999). "Cloning and characterization of gp36, a human mucin-type glycoprotein preferentially expressed in vascular endothelium". <i>Biochem J</i> 341 (Pt 2): 277-84. PMC 1220357. PMID 10393083. 2. Ma T, Yang B, Matthay MA, Verkman AS (Jul 1998). "Evidence against a role of mouse, rat, and two cloned human t1alpha isoforms as a water channel or a regulator of aquaporin-type water channels". <i>Am J Respir Cell Mol Biol</i> 19 (1): 143-9. PMID 9651190. 3. Entrez Gene: PDPN podoplanin".

NCBI AND UNIPROT INFORMATION

NCBI GI #	595763348
NCBI GeneID	14726
NCBI Accession #	NP_001277751.1
NCBI GenBank Nucleotide #	NM_001290822.1
UniProt Accession #	Q62011 ; Q546R8 ; Q61612 ; A2A8J3
NCBI Official Full Name	podoplanin isoform 2
NCBI Official Synonym Full Names	podoplanin
NCBI Official Symbol	Pdpn
NCBI Official Synonym Symbols	T1a; Gp38; OTS-8; T1alpha; RANDAM-2; T1-alpha

NCBI Protein Information	podoplanin
UniProt Protein Name	Podoplanin
UniProt Gene Name	Pdpn
UniProt Synonym Gene Names	Gp38; Ots8; Gp38; T1A

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/podoplanin-gp36-pdpn-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19233>