

## Product datasheet

info@arigobio.com

# ARG44029 anti-Podoplanin antibody

Package: 100 μl Store at: -20°C

#### **Summary**

Product Description Recombinant Rabbit Polyclonal antibody recognizes Podoplanin

Tested Reactivity Hu, Ms, Rat
Tested Application IHC-P, WB
Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name Podoplanin
Species Human

Immunogen Synthetic peptide within aa. 100-200 of Human Podoplanin.

Conjugation Un-conjugated

Alternate Names T1A2; T1A; GP36; Aggrus; Gp38; T1A-2; Glycoprotein 36; PA2.26 antigen; T1A; AGGRUS; HT1A-1; OTS8;

Gp36; PA2.26; T1-alpha; Podoplanin; GP40

## **Application Instructions**

Application table	Application	Dilution
	IHC-P	1:20 - 1:50
	WB	1:500 - 1:1000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 6.0).  * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	36 kDa	

#### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH7.3), 0.05% Proclin300 and 50% Glycerol.

Preservative 0.05% Proclin300

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

PDPN

Gene Full Name

podoplanin

Background

This gene encodes 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. The specific function of this protein has not been determined but it has been proposed as a marker of lung injury. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Function

May be involved in cell migration and/or actin cytoskeleton organization. When expressed in keratinocytes, induces changes in cell morphology with transfected cells showing an elongated shape, numerous membrane protrusions, major reorganization of the actin cytoskeleton, increased motility and decreased cell adhesion. Required for normal lung cell proliferation and alveolus formation at birth. Induces platelet aggregation. Does not have any effect on folic acid or amino acid transport. Does not function as a water channel or as a regulator of aquaporin-type water channels. [UniProt]

Calculated Mw

17 kDa

PTM

Extensively O-glycosylated. Contains sialic acid residues. O-glycosylation is necessary for platelet aggregation activity.

The N-terminus is blocked. [UniProt]

Cellular Localization

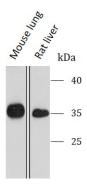
Podoplanin: Membrane; Single-pass type I membrane protein. Cell projection, lamellipodium membrane; Single-pass type I membrane protein. Cell projection, filopodium membrane; Single-pass type I membrane protein. Cell projection, microvillus membrane; Single-pass type I membrane protein. Cell projection, ruffle membrane; Single-pass type I membrane protein. Membrane raft. Apical cell membrane. Basolateral cell membrane. Cell projection, invadopodium. [UniProt]

## **Images**



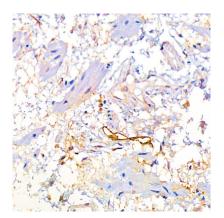
#### ARG44029 anti-Podoplanin antibody IHC-P image

Immunohistochemistry: Human colon stained with ARG44029 anti-Podoplanin antibody at 1:20 dilution.



### ARG44029 anti-Podoplanin antibody WB image

Western blot: Mouse lung and Rat kidney stained with ARG44029 anti-Podoplanin antibody at 1:1000 dilution.



## ARG44029 anti-Podoplanin antibody IHC-P image

 $Immun ohistochem is try: Human \ esophagus \ stained \ with \ ARG44029 \ anti-Podoplanin \ antibody \ at \ 1:20 \ dilution.$