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Datasheet for ABIN6264328 anti-Podoplanin antibody (N-Term)

2 Images



Overview

Quantity:	100 µL
Target:	Podoplanin (PDPN)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Podoplanin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthesized peptide derived from human Podoplanin, corresponding to a region within N-terminal amino acids.
lsotype:	lgG
Specificity:	Podoplanin Antibody detects endogenous levels of total Podoplanin.
Predicted Reactivity:	Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:

Podoplanin (PDPN)

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Target Details	
Alternative Name:	PDPN (PDPN Products)
Background:	Description: Mediates effects on cell migration and adhesion through its different partners.
	During development plays a role in blood and lymphatic vessels separation by binding CLEC1B,
	triggering CLEC1B activation in platelets and leading to platelet activation and/or aggregation
	(PubMed:14522983, PubMed:15231832, PubMed:17616532, PubMed:18215137,
	PubMed:17222411). Interaction with CD9, on the contrary, attenuates platelet aggregation
	induced by PDPN (PubMed:18541721). Through MSN or EZR interaction promotes epithelial-
	mesenchymal transition (EMT) leading to ERZ phosphorylation and triggering RHOA activation
	leading to cell migration increase and invasiveness (PubMed:17046996, PubMed:21376833).
	Interaction with CD44 promotes directional cell migration in epithelial and tumor cells
	(PubMed:20962267). In lymph nodes (LNs), controls fibroblastic reticular cells (FRCs) adhesion
	to the extracellular matrix (ECM) and contraction of the actomyosin by maintaining ERM
	proteins (EZR, MSN and RDX) and MYL9 activation through association with unknown
	transmembrane proteins. Engagement of CLEC1B by PDPN promotes FRCs relaxation by
	blocking lateral membrane interactions leading to reduction of ERM proteins (EZR, MSN and
	RDX) and MYL9 activation (By similarity). Through binding with LGALS8 may participate to
	connection of the lymphatic endothelium to the surrounding extracellular matrix
	(PubMed:19268462). In keratinocytes, induces changes in cell morphology showing an
	elongated shape, numerous membrane protrusions, major reorganization of the actin
	cytoskeleton, increased motility and decreased cell adhesion (PubMed:15515019). Controls
	invadopodia stability and maturation leading to efficient degradation of the extracellular matrix
	(ECM) in tumor cells through modulation of RHOC activity in order to activate ROCK1/ROCK2
	and LIMK1/LIMK2 and inactivation of CFL1 (PubMed:25486435). Required for normal lung cell
	proliferation and alveolus formation at birth (By similarity). Does not function as a water
	channel or as a regulator of aquaporin-type water channels (PubMed:9651190). Does not have
	any effect on folic acid or amino acid transport (By similarity).
	Gene: PDPN
Molecular Weight:	43 kDa
Gene ID:	10630
UniProt:	Q86YL7
Pathways:	Dicarboxylic Acid Transport

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Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot analysis of extracts of HEK-293 cells, using Podoplanin antibody.

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Immunohistochemistry

Image 2. ABIN6273300 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

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