

Datasheet: MCA2370

Description:	MOUSE ANTI HUMAN PODOPLANIN		
Specificity:	PODOPLANIN		
Other names:	AGGRUS		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	4D5aE5E6		
lsotype:	lgG1		
Quantity:	0.1 mg		

Product Details

Applications This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u>.

		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry			•		
	Immunohistology - Frozen	-			0.75ug/ml - 2ug/ml	
	Immunohistology - Paraffin (1)	•				
	ELISA			•		
	Immunoprecipitation			•		
	Western Blotting			•		
	Where this product has n	not been te	ested for	use in a particular tech	nique this does not	
	necessarily exclude its use in such procedures. Suggested working dilutions are given as					
	a guide only. It is recommended that the user titrates the product for use in their or system using appropriate negative/positive controls. (1)This product requires antigen retrieval using heat treatment prior to stair paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purp				t prior to staining of	
Target Species	Human					
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant			n tissue culture		
Buffer Solution	Phosphate buffered salin	е				

< 0.1% sodium azide (NaN ₃)	
IgG concentration 1mg/ml	
ORF Human podoplanin ectodomain expressed in <i>E.coli</i> .	
UniProt: <u>Q86YL7</u> <u>Related reagents</u>	
Entrez Gene: <u>10630</u> PDPN <u>Related reagents</u>	
GP36	
AB_2161944	
Mouse anti Human podoplanin antibody, clone 4D5aE5E6 m podoplanin also known as gp36, Aggrus, PA2.26 antigen or T1 amino acid ~36 kDa single pass, type I cell membrane-associa broad spectrum of distribution. Podoplanin is strongly expressed endothelium found in lung, placenta and skeletal muscle and to kidney and liver.	alpha. Podoplanin is a 140 ated glycoprotein, with a ed on the lymphatic o a lesser extent in brain,
(<u>Breiteneder-Geleff <i>et al.</i> 1999</u>) and therefore Mouse anti Hum- clone 4D5aE5E6 is readily able to distinguish between lympha vasculature. Podoplanin is reported to be a reliable indicator of (<u>Kitano <i>et al.</i> 2010</u>).	tic vessels and blood
Human lung	
 Furtado, G.C. <i>et al.</i> (2007) Lymphotoxin beta receptor signal inflammatory lymphangiogenesis in the thyroid. Proc Natl Acad 5026-31. Pardo, J. <i>et al.</i> (2007) Pseudomesotheliomatous carcinoma morphology, immunohistochemistry, and comparative genomic Diagn Pathol. 11 (4): 241-51. Link, A. <i>et al.</i> (2011) Association of T-zone reticular networks: lymphoid tissues in mice and humans. Am J Pathol. 178 (4): 104. Gu, Y. <i>et al.</i> (2008) Lymphangiogenesis induced by VEGF-C metastasis and a poor outcome in breast carcinoma: a retrospectine Exp Metastasis. 25 (7): 717-25. Ra, S.H. <i>et al.</i> (2007) Recurrent hepatic lymphangiomatosis transplantation. Liver Transpl. 13 (11): 1593-7. 	of the lung with a distinct hybridization profile. <u>Ann</u> s and conduits with ectopic <u>662-75.</u> and VEGF-D promotes ective study of 61 cases. after orthotopic liver
	IgG concentration 1mg/ml ORF Human podoplanin ectodomain expressed in <i>E.coli</i> . UniProt: 086YL7 Related reagents Entrez Gene: 10630 PDPN Related reagents GP36 AB_2161944 Mouse anti Human podoplanin antibody, clone 4D5aE5E6 i podoplanin also known as gp36, Aggrus, PA2.26 antigen or T1 amino acid ~36 kDa single pass, type I cell membrane-associa broad spectrum of distribution. Podoplanin is strongly expresse endothelium found in lung, placenta and skeletal muscle and tk kidney and liver. Podoplanin is preferentially expressed on lymphatic and abser (Breiteneder-Geleff <i>et al.</i> 1999) and therefore Mouse anti Hum clone 4D5aE5E6 is readily able to distinguish between lympha vasculature. Podoplanin is reported to be a reliable indicator of (Kitano <i>et al.</i> 2010). Human lung 1. Furtado, G.C. <i>et al.</i> (2007) Lymphotoxin beta receptor signa inflammatory lymphangiogenesis in the thyroid. Proc Natl Acade 5026-31. 2. Pardo, J. <i>et al.</i> (2007) Pseudomesotheliomatous carcinoma morphology, immunohistochemistry, and comparative genomic Diagn Pathol. 11 (4): 241-51. 3. Link, A. <i>et al.</i> (2001) Association of T-zone reticular network lymphoid tissues in mice and humans. <u>Am J Pathol. 178 (4): 174</u> . Mug

Further Reading	 Matsui, K. <i>et al.</i> (2003) Lymphatic microvessels in the rat remnant kidney model of renal fibrosis: aminopeptidase p and podoplanin are discriminatory markers for endothelial cells of blood and lymphatic vessels. J Am Soc Nephrol. 14 (8): 1981-9. Dadras, S.S. <i>et al.</i> (2003) Tumor lymphangiogenesis: a novel prognostic indicator for cutaneous melanoma metastasis and survival. Am J Pathol. 162 (6): 1951-60. Kato, Y. <i>et al.</i> (2003) Molecular identification of Aggrus/T1alpha as a platelet aggregation-inducing factor expressed in colorectal tumors. J Biol Chem. 278 (51): 51599-605. Schacht, V. <i>et al.</i> (2003) T1alpha/podoplanin deficiency disrupts normal lymphatic vasculature formation and causes lymphedema. EMBO J. 22 (14): 3546-56. Zimmer, G. <i>et al.</i> (1999) Cloning and characterization of gp36, a human mucin-type glycoprotein preferentially expressed in vascular endothelium. Biochem J. 341 (Pt 2): 277-84.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2370 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Goat Anti Mouse IgG (STAR70)	FITC		
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,		
	DyLight®650, DyLight®680, DyLight®800,		
	FITC, HRP		
Goat Anti Mouse IgG (STAR77)	HRP		
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Recommended Negative Controls			

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad	d.com	Email: antibody sales uk@bio	-rad.com	Email: antibody sales de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M415517:230105'

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