

Datasheet: VMA00488KT

Description:	PDIA1 ANTIBODY WITH CONTROL LYSATE
Specificity:	PDIA1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	lgG1
Quantity:	2 Westerns

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		
	Western Blotting		•			1/1000		
	application. The product has not	ne antibod t been tes	ly has bee ited for use	n validat e in a pai	•			
Target Species	Human							
Product Form	Purified IgG - lie	quid						
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography on Protein G from ascites							
Buffer Solution	Phosphate buffered saline							
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)							
Immunogen	Recombinant protein of human PDIA1							
External Database Links	UniProt: <u>P07237</u>	Related r	eagents					

	Entrez Gene: 5034 P4HB <u>Related reagents</u>					
Synonyms	ERBA2L, PDI, PDIA1, PO4DB					
Specificity	Mouse anti Human PDIA1 antibody recognizes PDIA1, also known as cellular thyroid hormone-binding protein, collagen prolyl 4-hydroxylase beta, glutathione-insulin transhydrogenase, p55, procollagen-proline, 2-oxoglutarate 4-dioxygenase beta polypeptide or thyroid hormone-binding protein p55.					
	The P4HB gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in preprocollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex (provided by RefSeq, Jul 2008).					
Western Blotting	Anti PDIA1 detects a band of approximately 57 kDa in HeLa cell lysate					
Instructions For Use	Please refer to the <u>PrecisionAb western blotting protocol</u> . For additional information on secondary antibody dilution and exposure time see product web page.					
Lysate Composition	400µg HeLa lysate lyophilized in RIPA buffer.					
Lysate Reconstitution	 If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT. If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol. 					
Storage	Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.					
	Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.					
Guarantee	As supplied, 12 months from date of despatch.					
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.					

Health A Informati	on Ar	Material Safety Datasheet documentation #10040 #10561 available at: Antibody (10040): <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</u> Lysate Material (10561): <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</u>							
Regulato	ry Fa	For research purposes only							
Relate	d Products								
Recomm	nended Secon	ndary Antibodies							
Goat Ant	i Mouse IgG (H/I	L) (STAR207) <u>HRP</u>							
Recomm	nended Negati	ive Controls							
MOUSE I	G1 NEGATIVE C	ONTROL (MCA928)							
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