

Datasheet: VMA00952

Description:	MOUSE ANTI PDIA6
Specificity:	PDIA6
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD02/1D11
Isotype:	IgG2b
Quantity:	100 µl

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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/500 - 1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-440 of human PDIA6

**External Database
Links**

UniProt:

[Q15084](#) [Related reagents](#)

Entrez Gene:

[10130](#) PDIA6 [Related reagents](#)

Synonyms

ERP5, P5, TXNDC7

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti PDIA6 antibody recognizes protein disulfide-isomerase A6, also known as ER protein 5, TXNDC7. PDIA6 belongs to the protein disulfide isomerase (PDI) family. It functions as an oxidoreductase to catalyze the formation of disulfide bonds, and as a chaperone to assist with protein folding ([Bai et al. 2019](#)). PDIA6 is able to promote the proliferation and growth of many types of human cancer cell and plays important roles in tumor immunoevasion and proliferation ([Gao et al. 2016](#)). Overexpression of PDIA6 has been identified in patients with lung adenocarcinoma and correlates with clinical status ([Tufo et al. 2014](#)). PDIA6 also appears to have metabolic roles, having found to be essential for glucose-stimulated insulin secretion. When PDIA6 is ablated, insulin release is substantially inhibited ([Eletto et al. 2016](#)).

Western Blotting

Mouse anti PDIA6 detects a band of approximately 50 kDa in HepG2 cell lysates

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00952>
Antibody (10040)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

