

## Datasheet: VPA00513KT

<b>Description:</b>	PDIA3 ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	PDIA3
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

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

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. 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 dependant on sample type.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid.

#### Preparation

20µl Goat polyclonal antibody purified by affinity chromatography.

#### Buffer Solution

TRIS buffered saline.

#### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)  
0.5% Bovine Serum Albumin.

#### Immunogen

Peptide sequence C-TEYSALEQSTK

**External Database  
Links**

**UniProt:**

[P30101](#)    [Related reagents](#)

**Entrez Gene:**

[2923](#)    PDIA3    [Related reagents](#)

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**Synonyms**

ERP57, ERP60, GRP58

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**Specificity**

**Goat anti Human PDIA3 antibody** recognizes protein disulfide-isomerase A3, also known as 58 kDa glucose-regulated protein, 58 kDa microsomal protein, disulfide isomerase ER-60, epididymis secretory protein Li 269 or phospholipase C-alpha.

The PDIA3 gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates ([Trombetta and Helenius 1998](#)) (provided by RefSeq, Jul 2008).

Goat anti Human PDIA3 antibody detects a band of 58 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti PDIA3 detects a band of approximately 58 kDa in HepG2 cell lysates.

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**Instructions For Use**

Please refer to the [PrecisionAb western blotting protocol](#).

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**Lysate Composition**

400µg HepG2 lysate lyophilized in RIPA buffer.

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**Lysate Reconstitution**

- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.  
- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, 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.

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**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.

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**Guarantee**

As supplied, 12 months from date of despatch.

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**Acknowledgements**

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10058 #10561 available at:  
Antibody (10058): <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>  
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)

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'M351932:190318'

**Printed on 10 Feb 2021**