

## Datasheet: VPA00264KT

<b>Description:</b>	PROLYL HYDROXYLASE 1 ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	PROLYL HYDROXYLASE 1
<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 Rabbit polyclonal antibody purified by affinity chromatography

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

#### Immunogen

KLH-conjugated synthetic peptide corresponding to aa 96-123 of human prolyl

hydroxylase 1

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**External Database**

**Links**

**UniProt:**

[Q96KS0](#)

[Related reagents](#)

**Entrez Gene:**

[112398](#)

EGLN2

[Related reagents](#)

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**Synonyms**

EIT6

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**Specificity**

**Rabbit anti Human prolyl hydroxylase 1 antibody** recognizes prolyl hydroxylase 1, also known as PHD1, EGLN2, HIF-prolyl hydroxylase 1, egl9 homolog 2, hypoxia-inducible factor prolyl hydroxylase 1 and prolyl hydroxylase domain-containing protein 1.

Hypoxia inducible factor (HIF) is a transcriptional complex that is involved in oxygen homeostasis. At normal oxygen levels, the alpha subunit of HIF is targeted for degradation by prolyl hydroxylation. The prolyl hydroxylase 1 gene encodes an enzyme responsible for this post-translational modification. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between the prolyl hydroxylase 1 gene and the upstream RAB4B (RAB4B, member RAS oncogene family) gene (provided by RefSeq, Feb 2011).

Rabbit anti Human prolyl hydroxylase 1 antibody detects a band of 44 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti prolyl hydroxylase 1 detects a band of approximately 44 kDa in HepG2 cell lysate

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**Instructions For Use**

Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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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 #10040 #10561 available at:  
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>  
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

**North & South  
America** Tel: +1 800 265 7376  
Fax: +1 919 878 3751

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Look out for updates on how to access your digital version at [bio-rad-antibodies.com](https://www.bio-rad-antibodies.com)

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