

Datasheet: VPA00735KT

Description:	GLUTATHIONE REDUCTASE ANTIBODY WITH CONTROL LYSATE
Specificity:	GLUTATHIONE REDUCTASE
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
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 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	<p>Reacts with: Mouse</p> <p>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.</p>
Product Form	Purified IgG - liquid
Preparation	20µl Rabbit polyclonal antibody purified by affinity chromatography on Protein A
Buffer Solution	HEPES buffered saline
Preservative Stabilisers	<p>0.09% Sodium Azide</p> <p>1% Bovine Serum Albumin</p> <p><50% Glycerol</p>

Immunogen *E. coli*-derived recombinant human glutathione reductase

External Database

Links

UniProt:

[P00390](#) [Related reagents](#)

Entrez Gene:

[2936](#) GSR [Related reagents](#)

Synonyms

GLUR, GRD1

Specificity

Rabbit anti Human glutathione reductase antibody recognizes glutathione reductase, mitochondrial, also known as GR, GRase or epididymis luminal protein 75.

The GSR gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular antioxidant. Rare mutations in GSR result in hereditary glutathione reductase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been found (provided by RefSeq, Aug 2010).

Rabbit anti Human glutathione reductase antibody detects a band of 56 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Rabbit anti glutathione reductase detects a band of approximately 56 kDa in HeLa cell lysates

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.

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

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**Health And Safety
Information**

Material Safety Datasheet documentation #20359 #10561 available at:
Antibody (20359): <https://www.bio-rad-antibodies.com/uploads/MSDS/20359.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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