

Datasheet: VPA00488KT

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| Description: | GLUTATHIONE PEROXIDASE 1 ANTIBODY WITH CONTROL LYSATE |
| Specificity: | GLUTATHIONE PEROXIDASE 1 |
| 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

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 (NaN₃).

Immunogen

KLH conjugated synthetic peptide corresponding to amino acid 164-193 of human glutathione peroxidase 1

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| External Database Links | UniProt: P07203 Related reagents Entrez Gene: 2876 GPX1 Related reagents |
| Specificity | <p>Rabbit anti Human glutathione peroxidase 1 antibody recognizes glutathione peroxidase 1, also known as GPx-1, GSHPx-1 or cellular glutathione peroxidase.</p> <p>GPX1 gene encodes a member of the glutathione peroxidase family. Glutathione peroxidase functions in the detoxification of hydrogen peroxide, and is one of the most important antioxidant enzymes in humans. This protein is one of only a few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by UGA, that normally functions as a translation termination codon. In addition, this protein is characterized in a polyalanine sequence polymorphism in the N-terminal region, which includes three alleles with five, six or seven alanine (ALA) repeats in this sequence. The allele with five ALA repeats is significantly associated with breast cancer risk. Two alternatively spliced transcript variants encoding distinct isoforms have been found for GPX1 (provided by RefSeq, Jul 2008).</p> <p>Rabbit anti Human glutathione peroxidase 1 antibody detects a band of 22 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p> |
| Western Blotting | Anti glutathione peroxidase 1 detects a band of approximately 22 kDa in Jurkat cell lysates. |
| Instructions For Use | Please refer to the PrecisionAb western blotting protocol . |
| Lysate Composition | 400µg Jurkat lysate lyophilized in RIPA buffer. |
| Lysate Reconstitution | <ul style="list-style-type: none"> - 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. <p>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.</p> |
| Storage | <p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>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.</p> |
| Guarantee | As supplied, 12 months from date of despatch. |
| Acknowledgements | PrecisionAb™ is a trademark of Bio-Rad Laboratories. |
| Health And Safety | Material Safety Datasheet documentation #10040 #10561 available at: |

Information 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>

Regulatory For research purposes only.

Related Products

Recommended Secondary Antibodies

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

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