

## Datasheet: VMA00039

<b>Description:</b>	MOUSE ANTI NQO1
<b>Specificity:</b>	NQO1
<b>Other names:</b>	NAD(P)H Dehydrogenase [Quinone] 1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb™ Monoclonal
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Recombinant human NQO1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P15559</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1728</a>   NQO1   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	DIA4, NMOR1

**Specificity** **Mouse anti Human NQO1 antibody** recognizes human NAD(P)H dehydrogenase [quinone] 1 also known as NQO1, azoreductase, phyloquinone reductase or QR1. NQO1 is a cytosolic flavoenzyme and member of the NAD(P)H dehydrogenase (quinone) family, involved in detoxification, which catalyzes the two-electron reduction of quinones to hydroquinones.

NQO1 is expressed in a wide range of tissues and is overexpressed in many human tumors including lung, brain, liver, colon and breast. The ability of NQO1 to bioactivate anti-tumor quinones including mitomycin C, diaziquone and deoxyxyboquinone has become a focus area for chemotherapeutic studies ([Parkinson, E. et al. 2013](#)). Mutations in the NQO1 gene are associated with an increased risk of certain cancers, and an increased risk of leukaemia has been associated with diminished NQO1 activity and the NQO1 \*2 allele ([Nerbert, D.W. et al. 2002](#)). NQO1 expression is significantly upregulated in hypertrophic astrocytes and myelin-laden macrophages of active and chronic active multiple sclerosis patients ([van Horsen et al. 2006](#)).

Mouse anti Human NQO1 antibody recognizes human NQO1 as a single band of ~32 kDa in HeLa cell line lysates under reducing conditions and detects endogenous levels of total NQO1 but does not cross-react with NQO2.

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**Western Blotting** Anti NQO1 antibody detects a band of approximately 32 kDa in HeLa cell lysates.

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

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

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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