

## Datasheet: VMA00039KT

<b>Description:</b>	NQO1 ANTIBODY WITH CONTROL LYSATE
<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>	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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	20µl 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

### External Database Links

#### UniProt:

[P15559](#)

[Related reagents](#)

**Entrez Gene:**

[1728](#) NQO1 [Related reagents](#)

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<b>Synonyms</b>	DIA4, NMOR1
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<b>Specificity</b>	<p><b>Mouse anti Human NQO1 antibody</b> 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.</p> <p>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 (<a href="#">Parkinson, E. et al. 2013</a>). 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 (<a href="#">Nerbert, D.W. et al. 2002</a>). NQO1 expression is significantly upregulated in hypertrophic astrocytes and myelin-laden macrophages of active and chronic active multiple sclerosis patients (<a href="#">van Horssen et al. 2006</a>).</p> <p>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.</p>
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<b>Western Blotting</b>	Anti NQO1 antibody detects a band of approximately 32 kDa in HeLa cell lysates.
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<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
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<b>Lysate Composition</b>	400µg HeLa lysate lyophilized in RIPA buffer.
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<b>Lysate Reconstitution</b>	<p>- 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.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <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>
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<b>Storage</b>	<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>
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<b>Guarantee</b>	As supplied, 12 months from date of despatch.
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<b>Acknowledgements</b>	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 Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

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

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