

Datasheet: VMA00039

Description:	MOUSE ANTI NQO1
Specificity:	NQO1
Other names:	NAD(P)H Dehydrogenase [Quinone] 1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	A180
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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 dependent on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	Recombinant human NQO1
External Database Links	<p>UniProt: P15559 Related reagents</p> <p>Entrez Gene: 1728 NQO1 Related reagents</p>
Synonyms	DIA4, NMOR1
Specificity	<p>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.</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 deoxynyboquinone 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 Horssen et al. 2006).</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>
Western Blotting	Anti NQO1 antibody detects a band of approximately 32 kDa in HeLa cell lysates.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Guarantee	12 months from date of despatch
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

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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'M378718:210223'

Printed on 02 Mar 2021

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