

Datasheet: VMA00039

Description:	MOUSE ANTI NQO1
Specificity:	NQO1
Other names:	NAD(P)H Dehydrogenase [Quinone] 1
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
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
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
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)
Immunogen	Recombinant human NQO1
External Database Links	UniProt: P15559 Related reagents Entrez Gene: 1728 NQO1 Related reagents
Synonyms	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 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](#)).

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.

Western Blotting

Anti NQO1 antibody detects a band of approximately 32 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.

Storage

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

Shelf Life

As supplied, 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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