

Datasheet: VMA00986

BATCH NUMBER 100006565

Description:	MOUSE ANTI HUMAN DUSP3
Specificity:	DUSP3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	E02/5H5
Isotype:	IgG2a
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	▪			2.5 µg
Western Blotting	▪			1/2000

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	Purified IgG prepared 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 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein, aa 1-185 of human DUSP3

External Database

Links

UniProt:

[P51452](#)

[Related reagents](#)

Entrez Gene:

[1845](#)

DUSP3

[Related reagents](#)

Synonyms

VHR

Specificity

Mouse anti Human DUSP3 antibody recognizes dual-specificity phosphatase 3, also known as dual specificity protein phosphatase VHR or vaccinia H1-related phosphatase.

DUSP3 is a member of the DUSP family of proteins. Members of this family dephosphorylate the threonine/serine and tyrosine residues of their substrates, such as MAPKs ERK and JNK, STAT5 and ErbB2 ([Cerignoli et al. 2006](#), [Monteiro et al. 2019](#)). DUSP3 expression has a role in the development of a number of different cancer types, including cancer of the cervix ([Henkens et al. 2008](#)) and prostate ([Arnoldussen et al. 2008](#)). Decreased levels of DUSP3 lead to increased phosphorylation of the insulin receptor (IR) and higher activation of the downstream signaling pathway; suggesting DUSP3 plays a role in obesity, insulin resistance, non-alcoholic fatty liver disease (NAFLD) and liver damage ([Jaques et al. 2021](#)).

Western Blotting

Mouse anti Human DUSP3 antibody detects a band of 20 kDa in U-87 MG cell lysates

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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: <https://www.bio-rad-antibodies.com/SDS/VMA00986>

Regulatory

For research purposes only

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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