

Datasheet: VMA00134

Description:	MOUSE ANTI EIF2S1
Specificity:	EIF2S1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI3H4
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

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

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Mouse monoclonal antibody purified by affinity chromatography from ascites.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)
1% Bovine Serum Albumin

50% Glycerol

Immunogen Full length recombinant human EIF2S1 (NP_004085) produced in HEK293T cells

External Database Links

UniProt:

[P05198](#) [Related reagents](#)

Entrez Gene:

[1965](#) EIF2S1 [Related reagents](#)

Synonyms EIF2A

Specificity **Mouse anti Human EIF2S1 antibody, clone OT13H4** recognizes EIF2S1, also known as eIF-2-alpha, eukaryotic translation initiation factor 2 subunit 1 and eukaryotic translation initiation factor 2 subunit alpha.

The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36 kDa EIF2-alpha subunit (EIF2S1), the 38 kDa EIF2-beta subunit (EIF2S2), and the 52 kDa EIF2-gamma subunit (EIF2S3). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha ([Ernst et al. 1987](#)).

Mouse anti Human EIF2S1 antibody detects a band of 36 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting Anti EIF2S1 detects a band of approximately 36 kDa in HEK293 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 #10048 available at: Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.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 \(MCA928\)](#)

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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

'M369930:200529'

Printed on 29 Aug 2021

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)