

Datasheet: VMA00134KT

Description:	EIF2S1 ANTIBODY WITH CONTROL LYSATE
Specificity:	EIF2S1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI3H4
Isotype:	lgG1
Quantity:	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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting				1/1000

**PrecisionAb antibodies have been extensively** <u>validated for the western blot</u> <u>application.</u> 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
Species Cross Reactivity	Reacts with: Mouse, Rat <b>N.B.</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	20μl Mouse monoclonal antibody purified by affinity chromatography from ascites.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 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	<b>Mouse anti Human EIF2S1 antibody</b> 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-kD EIF2-beta subunit (EIF2S2), and the 52-kD EIF2-gamma subunit (EIF2S3). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha (Ernst <i>et al.</i> 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.
Instructions For Use	Please refer to the <u>PrecisionAb western blotting protocol.</u> For additional information on secondary antibody dilution and exposure time see product web page.
Lysate Composition	400μg HEK293 lysate lyophilized in RIPA buffer.
Lysate Reconstitution	<ul> <li>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.</li> <li>If using BME reconstitute the lyophilized lysate with 180μl DI H<sub>2</sub>O, add 200μl 2x Laemmli Sample Buffer and 20μl BME.</li> <li>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.</li> </ul>
Storage	Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
	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.

tee	As supplied, 12 months from date of despatch.

Guarantee

Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10048 #10561 available at: Antibody (10048): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf</a> Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a>
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

 $\label{lem:lemail:antibody_sales_uk@bio-rad.com} Email: antibody\_sales\_uk@bio-rad.com \\ Email:$ 

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