

Datasheet: AHP2746

BATCH NUMBER 148756

Description:	RABBIT ANTI EIF2S1 (pSer51)
Specificity:	EIF2S1 (pSer51)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 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	▪			1/500 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to EIF2S1 (pSer51) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide 50% Glycerol
Immunogen	Phospho specific-peptide corresponding to residues surrounding serine 51 of human EIF2S1

External Database Links

UniProt:
[P05198](https://www.uniprot.org/uniprot/P05198) [Related reagents](#)

Entrez Gene:

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

Synonyms	EIF2A
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Specificity	Rabbit anti EIF2S1 (pSer51) antibody recognizes eukaryotic translation initiation factor 2 subunit 1 (EIF2S1) when phosphorylated on serine 51. EIF2S1 functions in protein synthesis; it binds GTP and Met-tRNA _i and transfers Met-tRNA _i to the 40S ribosomal subunit (Kimball 1999). EIF2S1 phosphorylation at serine 51 is a determinant of survival and adaptation of glucose-deficient cells (Muaddi et al. 2010). It has been also demonstrated that EIF2S1 phosphorylated at serine 51 acts as a molecular switch that determines the cell fate decisions by activated Akt in response to activated stress (Rajesh et al. 2015).
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Storage	Store at -20°C Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/AHP2746 10049
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

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