

Datasheet: AHP2746

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
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Product Form	Purified IgG - liquid
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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.
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Buffer Solution	Phosphate buffered saline
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Preservative	0.02% Sodium Azide
Stabilisers	50% Glycerol

Immunogen	Phospho specific-peptide corresponding to residues surrounding serine 51 of human EIF2S1
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External Database Links

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

Entrez Gene:

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: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
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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](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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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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Printed on 21 Mar 2022