

Datasheet: MCA6325

Description:	RABBIT ANTI EIF2S1 (pSer51)
Specificity:	EIF2S1 (pSer51)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM298
Isotype:	IgG
Quantity:	0.1 ml

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
Immunohistology - Paraffin	▪			1/100 - 1/200
Western Blotting	▪			1/100 - 1/200

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
Preparation	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	A phospho-peptide corresponding to Human EIF2S1
External Database Links	UniProt:

Entrez Gene:

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

Synonyms EIF2A

Specificity **Rabbit anti Human EIF2S1 antibody** recognizes eukaryotic translation initiation factor 2 subunit 1 (EIF2S1), also known as EIF2A, when phosphorylated at 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](#)). EIF2S1 is essential for tumorigenesis and progression, and has been correlated with poor prognosis in patients with breast cancer ([Chen et al. 2019](#)).

Storage Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10048 available at:
10048: <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

Regulatory For research purposes only

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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