

OriGene Technologies, Inc.

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Product datasheet for CF501402

elF2 alpha (EIF2S1) Mouse Monoclonal Antibody [Clone ID: OTI1H1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1H1
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human EIF2S1 (NP_004085) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35.9 kDa
Gene Name:	eukaryotic translation initiation factor 2 subunit alpha
Database Link:	<u>NP_004085</u> <u>Entrez Gene 13665 MouseEntrez Gene 54318 RatEntrez Gene 1965 Human</u> <u>P05198</u>



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GRIGENE elF2 alpha (ElF2S1) Mouse Monoclonal Antibody [Clone ID: OTI1H1] – CF501402

Background: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-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit
(EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of
formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha
(Ernst et al., 1987 [PubMed 2948954]). [supplied by OMIM]

Synonyms: EIF-2; EIF-2A; EIF-2alpha; EIF2; EIF2A

Product images:

 170
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 130
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 100
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 70
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 55
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 40
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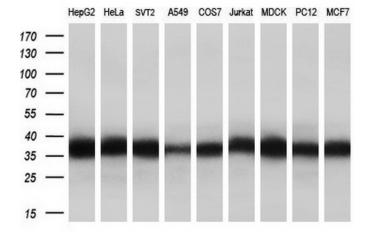
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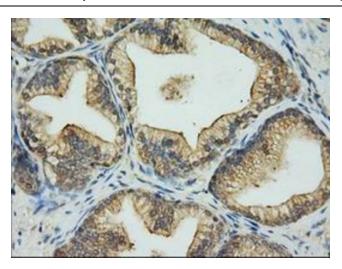
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HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY EIF2S1 ([RC200368], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-EIF2S1. Positive lysates [LY401321] (100ug) and [LC401321] (20ug) can be purchased separately from OriGene.

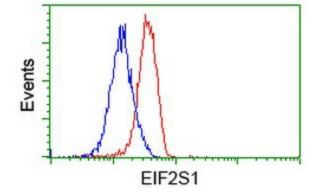


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-EIF2S1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).

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Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-EIF2S1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501402])



Flow cytometric Analysis of Jurkat cells, using anti-EIF2S1 antibody ([TA501402]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

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