

Mouse EIF2S1/EIF-2 alpha (EIF2A) Monoclonal Antibody | anti-EIF2S1 antibody

EIF2S1/EIF-2 alpha (EIF2A) Mouse Monoclonal Antibody [Clone PCRP-EIF2S1-1E2]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215611	Mouse	Human Predicted to work in Rat and Zebrafish.	Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

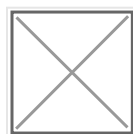
PRODUCT SYNONYMS

EIF2S1/EIF-2 alpha (EIF2A); Monoclonal Antibody; EIF2S1/EIF-2 alpha (EIF2A) Mouse Monoclonal Antibody [Clone PCRP-EIF2S1-1E2]; Eukaryotic translation initiation factor 2 subunit 1 alpha 35kDa (EIF2S1); EIF-2alpha; EIF2; EIF2A; anti-EIF2S1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human Predicted to work in Rat and Zebrafish.
Clonality	Monoclonal
Isotype	Mouse/IgG1
Clone Number	PCRP-EIF2S1-1E2
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-EIF2S1 antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant full-length human EIF2S1 protein
Cellular Localization	Nucleus
Positive Control	HeLa or MCF7 cells.
Hu-chromosome Location	14q23.3
Unigene	151777
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IF (Immunofluorescence)

Immunofluorescence Analysis of PFA-fixed MCF-7 cells using EIF2S1 Mouse Monoclonal Antibody (PCRP-EIF2S1-1E2) followed by goat anti-mouse IgG-CF488 (green).

ADDITIONAL INFORMATION

Related Product Information for anti-EIF2S1 antibody	The initiation of protein synthesis in eukaryotic cells is regulated by interactions between protein initiation factors and RNA molecules. The eukaryotic initiation complex is composed of three subunits, designated eIF2a, eIF2band eIF2g (eukaryotic translation initiation factor 2 a, band g, respectively), all of which work in concert to form a ternary complex with GTP and tRNA in the early stages of protein synthesis. eIF2a, also known as EIF2S1 or EIF2, is a 315 amino acid subunit of the eukaryotic initiation complex that functions to bind tRNA to the 40S ribosomal subunit (in a GTP-dependent manner), thereby initiating translation. In addition, the phosphorylation state of eIF2a controls the rate of tRNA translation. When eIF2a is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2a is stabilized, thus preventing the GDP/GTP exchange reaction and slowing translation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4758256
NCBI GeneID	1965
NCBI Accession #	NP_004085.1
NCBI GenBank Nucleotide #	NM_004094.4
UniProt Accession #	P05198
Molecular Weight	38 kDa
NCBI Official Full Name	eukaryotic translation initiation factor 2 subunit 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa
NCBI Official Symbol	EIF2S1
NCBI Official Synonym Symbols	EIF2; EIF-2; EIF2A; EIF-2A; EIF-2alpha
NCBI Protein Information	eukaryotic translation initiation factor 2 subunit 1; eIF-2-alpha; eukaryotic translation initiation factor 2 subunit alpha
UniProt Protein Name	Eukaryotic translation initiation factor 2 subunit 1
UniProt Gene Name	EIF2S1
UniProt Synonym Gene Names	EIF2A; eIF-2-alpha; eIF-2A; eIF-2alpha
UniProt Entry Name	IF2A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/eif2s1-eif-2-alpha-eif2a-antibody-clone-pcrp-eif2s1-1e2-western-blot-immunofluorescence-flow-cytometry-elisa/215611>