

Rabbit anti-Human, Mouse EIF2A Polyclonal Antibody | anti-EIF2S1 antibody

EIF2A Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36744	Rabbit	Human, Mouse	Immunofluorescence, Immunohistochemistry, Western Blot

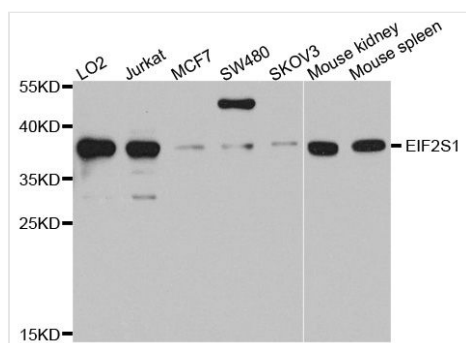
PRODUCT SYNONYMS

EIF2A; Polyclonal Antibody; EIF2A Polyclonal Antibody; eIF2alpha: eIF2a; EIF2S1; EIF-2; EIF-2A; EIF-2alpha; EIF2; anti-EIF2S1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	315
Applicable Applications for anti-EIF2S1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Fusion protein of human EIF2A
Calculated Molecular Weight	36kDa
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles. Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.

IMAGES



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using EIF2S1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF2S1 antibody	Phosphorylation of the eukaryotic initiation factor 2 (eIF2) alpha subunit is a well-documented mechanism to downregulate protein synthesis under a variety of stress conditions. eIF2 binds GTP and Met-tRNAi and transfers Met-tRNA to the 40S subunit to form the 43S preinitiation complex (1,2). eIF2 promotes a new round of translation initiation by exchanging GDP for GTP, a reaction catalyzed by eIF2B (1,2). Kinases that are activated by viral infection (PKR), endoplasmic reticulum stress (PERK/PEK), amino acid deprivation (GCN2), or heme deficiency (HRI) can phosphorylate the alpha subunit of eIF2 (3,4). This phosphorylation stabilizes the eIF2-GDP-eIF2B complex and inhibits the turnover of eIF2B. Induction of PKR by IFN-gamma and TNF-alpha induces potent phosphorylation of eIF2alpha at Ser51 (5,6).
Product Categories/Family for anti-EIF2S1 antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	124200
NCBI GeneID	1965
UniProt Accession #	P05198
Molecular Weight	315
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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/eif2a-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/36744>