

Rabbit eIF-2a Polyclonal Antibody | anti-eIF-2a antibody

eIF-2a (Phospho-Ser 52) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA310989	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Immunofluorescence, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

eIF-2a; Polyclonal Antibody; eIF-2a (Phospho-Ser 52) Antibody; EIF 2 alpha antibody; EIF 2 antibody; EIF 2A antibody; EIF 2alpha antibody; eIF-2-alpha antibody; eIF-2A antibody; EIF-2alpha antibody; EIF2 alpha antibody; EIF2 antibody; EIF2A antibody; EIF2S1 antibody; Eukaryotic translation initiation factor 2 subunit 1 alpha 35kDa antibody; Eukaryotic translation initiation factor 2 subunit 1 alpha antibody; Eukaryotic translation initiation factor 2 subunit 1 antibody; Eukaryotic translation initiation factor 2 subunit alpha antibody; IF2A_HUMAN antibody; anti-eIF-2a antibody

PRODUCT SPECIFICATIONS

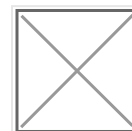
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-eIF-2a antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), IP (Immunoprecipitation), WB (Western Blot)
Immunogen	A short amino acid sequence containing phosphorylated Ser 52 of eIF2alpha of human origin.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



Application Data

Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast carcinoma tissue showing cytoplasmic staining.



WB (Western Blot)

Western blot analysis of eIF2alpha phosphorylation in untreated (A, C) and lambda protein phosphatase treated (B, D) HEK293 whole cell lysates. Antibodies tested include p-eIF2alpha (Ser 52) (A, B) and eIF2alpha (C, D).

ADDITIONAL INFORMATION

Related Product Information for anti-eIF-2a 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 eIF2, eIF2 and eIF2 (eukaryotic translation initiation factor 2, and, respectively), all of which work in concert to form a ternary complex with GTP and tRNA in the early stages of protein synthesis. eIF2, 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 eIF2 controls the rate of tRNA translation. When eIF2 is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2 is stabilized, thus preventing the GDP/GTP exchange reaction and slowing translation.

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif-2a-antibody-immunohistochemistry-immunofluorescence-immunoprecipitation-western-blot-elisa/310989>