

Rabbit eIF2alpha Polyclonal Antibody | anti-eIF2alpha antibody

eIF2alpha (Phospho-Ser51) Antibody

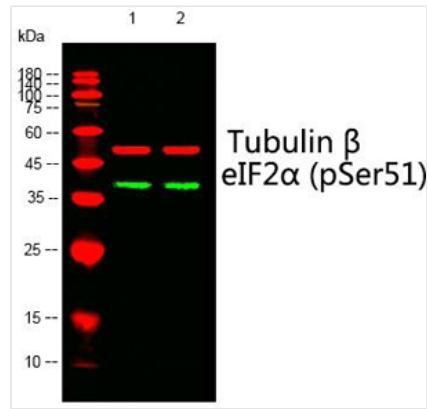
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA304625	Rabbit	Human, Mouse, Rat, Dog, Pig, Fish	Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

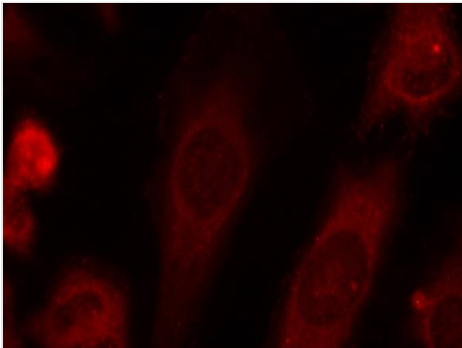
eIF2alpha; Polyclonal Antibody; eIF2alpha (Phospho-Ser51) Antibody; eIF2a (Phospho-Ser51) Antibody; Eukaryotic translation initiation factor 2 subunit alpha; EIF-2A; anti-eIF2alpha antibody

PRODUCT SPECIFICATIONS

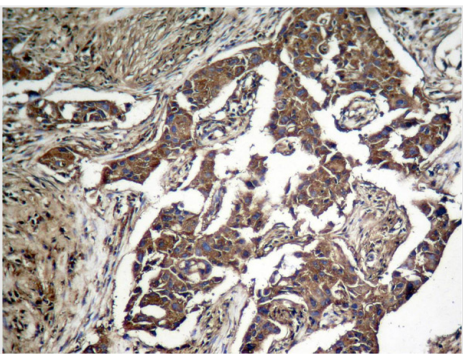
Host	Rabbit
Reactivity	Human, Mouse, Rat, Dog, Pig, Fish
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of eIF2a only when phosphorylated at serine 51.
Purity/Purification	Purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. Produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	315
Applicable Applications for anti-eIF2alpha antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 51 (E-L-S(p)-R-R) derived from Human eIF2a.
Modification	Phospho
Target Name	eIF2a
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.



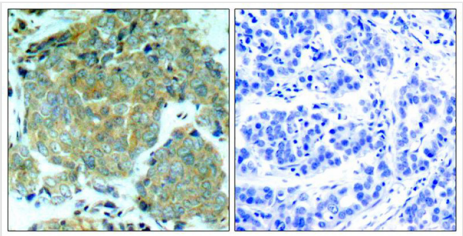
WB (Western Blot)
Western blot analysis of lysates from 1) KB, 2) MCF-7 cells, (Green) primary antibody was diluted at 1:1000



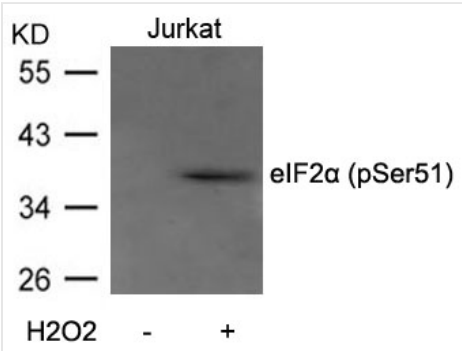
IF (Immunofluorescence)
Immunofluorescence staining of methanol-fixed HeLa cells using eIF2 α (Phospho-Ser51) Antibody.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using eIF2 α (Phospho-Ser51) Antibody.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using eIF2 α (Phospho-Ser51) Antibody (left) or the same antibody preincubated with blocking peptide (right).



WB (Western Blot)
Western blot analysis of extracts from Jurkat cells untreated or treated with H₂O₂ using eIF2 α (Phospho-Ser51) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-eIF2 α antibody	Functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B.
Product Categories/Family for anti-eIF2 α antibody	Phospho-specific Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758256
NCBI GeneID	1965
NCBI Accession #	NP_004085.1
NCBI GenBank Nucleotide #	NM_004094.4
UniProt Accession #	P05198
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
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/eif2alpha-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/304625>