

eIF2alpha Antibody | anti-eIF2alpha antibody

eIF2alpha (Phospho-Ser51) Antibody

CATALOG # AAA111783	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot
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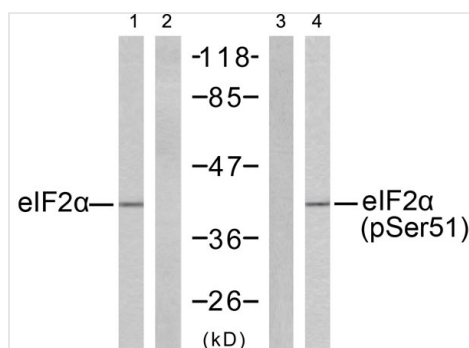
PRODUCT SYNONYMS

eIF2alpha; eIF2alpha (Phospho-Ser51) Antibody; EIF2S1; Eukaryotic translation initiation factor 2 subunit 1; anti-eIF2alpha antibody

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Specificity	eIF2alpha (phospho-Ser51) antibody detects endogenous levels of eIF2alpha only when phosphorylated at serine 51.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Sequence Length	315
Applicable Applications for anti-eIF2alpha antibody	ELISA, WB (Western Blot)
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human eIF2alpha around the phosphorylation site of serine 51 (E-L-SP-R-R).
All Sites	Human: Ser51 Mouse: Ser52 Rat: Ser51
Preparation and Storage	Store at -20 degree C for 1 year

IMAGES



WB (Western Blot)

Western blot analysis of extracts from K562 cells untreated or treated with IFN-alpha (1000U/ml, 18 hours), using eIF2alpha (Ab-51) antibody (Line 1 and 2) and eIF2alpha (phospho-Ser51) antibody (Line 3 and 4).

ADDITIONAL INFORMATION

Product Categories/Family for anti-eIF2alpha antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
References	Xavier Saelens, et, al. (2001) J. Biol. Chem; 276: 41620-41628. Hiroyuki Kubota, et, al.(2003) J. Biol. Chem; 278: 20457-20460. Shijian Chu, et, al. (2006) Am J Physiol Lung Cell Mol Physiol; 291: L983-L992. Eileen Connolly, et, al.(2006) Mol. Cell. Biol; 26: 3955-3965.

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	36,112 Da
NCBI Official Full Name	eukaryotic translation initiation factor 2 subunit 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2 subunit alpha
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

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.