

elF2α (phospho Ser51) rabbit pAb

Cat No.:ES1304

For research use only

Overview

Product Name	eIF2α (phospho Ser51) rabbit pAb
Host species	Rabbit
Applications	IF;WB;IHC;ELISA
Species Cross-Reactivity	Human;Mouse;Rat;Dog;Pig;Fish
Recommended dilutions	IF: 1:50-200 Western Blot: 1/500 - 1/2000.
	Immunohistochemistry: 1/100 - 1/300. ELISA:
	1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized
	peptide derived from human eIF2 alpha around the
	phosphorylation site of Ser51. AA range:21-70
Specificity	Phospho-eIF2α (S51) Polyclonal Antibody detects
	endogenous levels of eIF2α protein only when
	phosphorylated at S51.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Eukaryotic translation initiation factor 2 subunit 1
Gene Name	EIF2S1
Cellular localization	Cytoplasm, Stress granule . Colocalizes with NANOS3
	in the stress granules
Purification	The antibody was affinity-purified from rabbit
	antiserum by affinity-chromatography using
	epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	38kD
Human Gene ID	1965
Human Swiss-Prot Number	P05198
Alternative Names	EIF2S1; EIF2A; Eukaryotic translation initiation factor
	2 subunit 1; Eukaryotic translation initiation factor 2
	subunit alpha; eIF-2-alpha; eIF-2A; eIF-2alpha
Background	The translation initiation factor EIF2 catalyzes the
	first regulated step of protein synthesis initiation,



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promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha (Ernst et al., 1987 [PubMed 2948954]).[supplied by OMIM, Feb 2010],

Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.





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