

eIF2α (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

Phospho alEag (SE1) Polysland Antibody detect

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

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

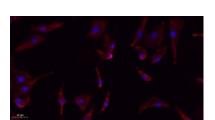
first regulated step of protein synthesis initiation,



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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],



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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.

