

eIF2 alpha(Phospho Ser51) Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP00593
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
Immunogen	The antiserum was produced against synthesized peptide derived from human eIF2 alpha around the phosphorylation site of Ser51. AA range:21-70
Mol wt	36112
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	IF, ICC, WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	Eukaryotic translation initiation factor 2 subunit 1
Synonyms	Eukaryotic translation initiation factor 2 subunit 1; EIF2S1; EIF2A; Eukaryotic translation initiation factor 2 subunit 1; Eukaryotic translation initiation factor 2 subunit alpha; eIF-2-alpha; eIF-2A; eIF-2alpha

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis initiation, 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)

Recommended Dilution

WB: 1: 500 - 1: 2000

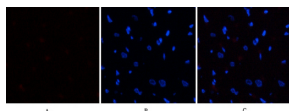
IHC-p: 1: 100 - 1: 300

IF: 1: 50 - 1: 200

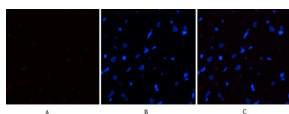
ELISA: 1: 10000

Not yet tested in other applications.

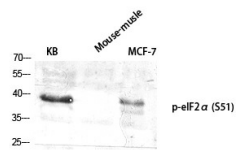
Images



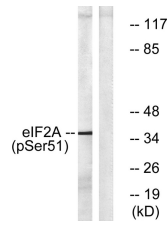
Immunofluorescence analysis of rat-heart tissue. 1,eIF2 α (phospho Ser51) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



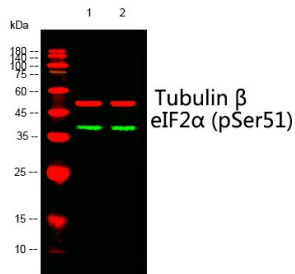
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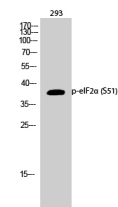
Western blot analysis of lysates from 1) KB, 2) MCF-7 cells, (Green) primary antibody was diluted at 1:1000, 4°C overnight, Dylight 800 secondary antibody was diluted at 1:10000, 37°C 1hour. (Red) Tubulin β Monoclonal Antibody(5G3) was diluted at 1:5000 as loading control, 4°C overnight, Dylight 680 secondary antibody was diluted at 1:10000, 37°C 1hour.



Western Blot analysis of various cells using Phospho-eIF2α (S51) Polyclonal Antibody diluted at 1:2000



Western Blot analysis of 293 cells using Phospho-eIF2α (S51) Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from K562 cells treated with IFN-alpha 1000U/ml 18h, using eIF2 alpha (Phospho-Ser51) Antibody. The lane on the right is blocked with the phospho peptide.

Storage

-20°C for 1 year

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