Datasheet for ABIN7203754

anti-EIF2A antibody (pSer51)

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Overview

Quantity:	100 µL
Target:	EIF2A
Binding Specificity:	pSer51
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF2A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	eIF2α (phospho Ser51) Polyclonal Antibody
Immunogen:	Synthesized peptide derived from human eIF2alpha Phospho-Ser51
Isotype:	IgG
Specificity:	Phospho-eIF2α (S51) Polyclonal Antibody detects endogenous levels of eIF2α protein only when phosphorylated at S51.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

Target Details

Target:	EIF2A

Target Details

Alternative Name:	eIF2alpha (EIF2A Products)
Background:	Rabbit Anti-eIF2α (phospho Ser51) Polyclonal Antibody,EIF2S1, EIF2A, Eukaryotic translation initiation factor 2 subunit 1, Eukaryotic translation initiation factor 2 subunit alpha, eIF-2-alpha, eIF-2A, eIF-2alpha,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 [PubMed 2948954]).,Eukaryotic translation initiation factor 2 subunit 1
Gene ID:	1965
UniProt:	P05198
Pathways:	Ribonucleoprotein Complex Subunit Organization, ER-Nucleus Signaling, Hepatitis C, Methionine Biosynthetic Process, Ribosome Assembly

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IF (1:50-1:200), IHC-P (1:100-1:300), ELISA (1:10000). Not yet tested in other applications.
Restrictions:	For Research Use only

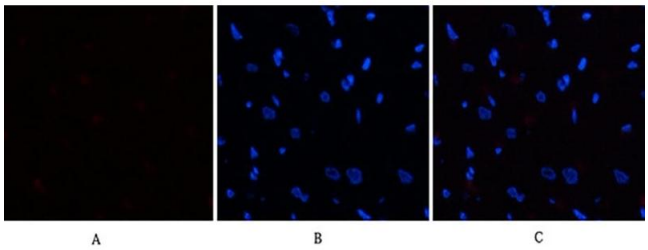
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid

Handling

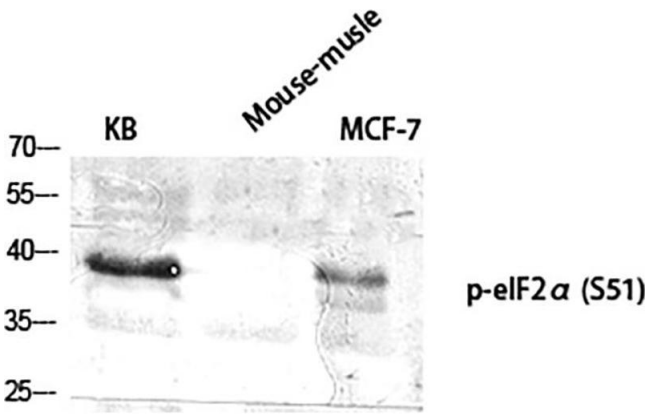
repeated freezing and thawing.

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of rat heart tissue. 1, eIF2α (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, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.



Western Blotting

Image 2. Western Blot analysis of KB (1), mouse-musle (2), MCF-7 (3), diluted at 1:2000.