Datasheet for ABIN362970

anti-EIF2A antibody (AA 49-53)

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Overview

Quantity:	100 µL
Target:	EIF2A
Binding Specificity:	AA 49-53
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Peptide sequence around AA 49-53 (E-L-S-R-R) derived from Human eIF2a. Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates.
Isotype:	IgG
Specificity:	The antibody detects endogenous level of total eIF2a protein.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography usingepitope-specific immunogen.

Target Details

Target:	EIF2A
Alternative Name:	eIF2alpha (EIF2A Products)

Target Details

Background:	Functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B.
Molecular Weight:	38 kDa
NCBI Accession:	NP_004085
UniProt:	P05198
Pathways:	Ribonucleoprotein Complex Subunit Organization, ER-Nucleus Signaling, Hepatitis C, Methionine Biosynthetic Process, Ribosome Assembly

Application Details

Application Notes:	Western blotting: 1:500-1:1000 Immunohistochemistry: 1:50-1:100 Immunofluorescence: 1:100-1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	4 °C/-20 °C
Storage Comment:	Store at -20 °C for long term preservation (recommended). Store at 4 °C for short term use.

Publications

Product cited in:	Wu, Li, Lin, Wang, Li, Tie, Song, Guo, Yu, Li: "Salvianolic acid B protects human endothelial cells

from oxidative stress damage: a possible protective role of glucose-regulated protein 78 induction." in: **Cardiovascular research**, Vol. 81, Issue 1, pp. 148-58, (2008) (PubMed).