Datasheet for ABIN7138634

anti-EIF2S1 antibody (pSer49)

4 Images

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Overview

Quantity:	100 µL
Target:	EIF2S1
Binding Specificity:	pSer49
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF2S1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA

Product Details

Immunogen:	Peptide sequence around phosphorylation site of Serine 49 (L-L-S(p)-E-L) derived from Human eIF2a.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi

Target Details

Target:	EIF2S1
Alternative Name:	EIF2S1 (EIF2S1 Products)

Target Details

Background:	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. Kimball, S.R. (1999) Int. J. Biochem. Cell Biol. 31, 25-29. De Haro, C. et al. (1996) FASEB J. 10, 1378-1387. Sheikh, M.S. and Fornace Jr., A.J. (1999) Oncogene 18, 6121-6128. Cheshire, J.L. et al. (1999) J. Biol. Chem. 274, 4801-4806. Aliases: EIF 2 alpha antibody, EIF 2 antibody, EIF 2A antibody, EIF 2alpha antibody, eIF-2-alpha antibody, eIF-2A antibody, EIF-2alpha antibody, EIF2 alpha antibody, EIF2 antibody, EIF2A antibody, EIF2S1 antibody, Eukaryotic translation initiation factor 2 subunit 1 alpha 35 kDa antibody, Eukaryotic translation initiation factor 2 subunit 1 alpha antibody, Eukaryotic translation initiation factor 2 subunit 1 antibody, Eukaryotic translation initiation factor 2 subunit alpha antibody, IF2A_HUMAN antibody
UniProt:	P05198
Pathways:	Ribonucleoprotein Complex Subunit Organization, ER-Nucleus Signaling, Hepatitis C

Application Details

Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,
Restrictions:	For Research Use only

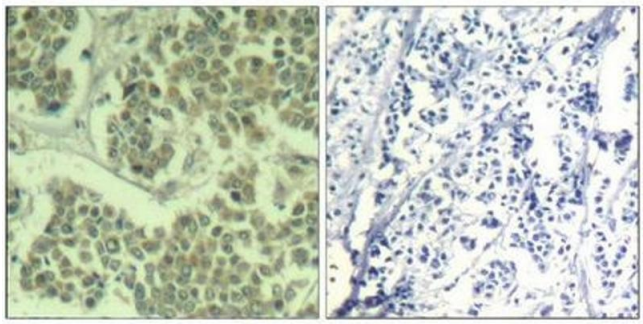
Handling

Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in 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.

Handling

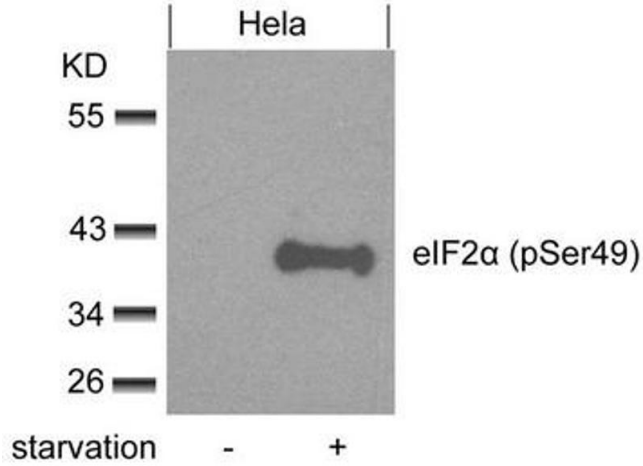
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



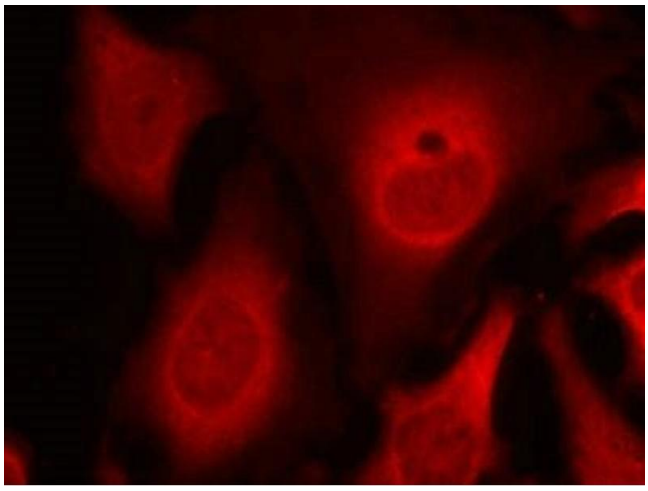
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using eIF2α (Phospho-Ser49) Antibody (left) or the same antibody preincubated with blocking peptide (right).



Western Blotting

Image 2. Western blot analysis of extracts from Hela cells untreated or treated with starvation using eIF2a(phospho-Ser49) Antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of methanol-fixed Hela cells using eIF2a(phospho-Ser49) Antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN7138634.