ARG51813
anti-eIF2 beta phospho (Ser2) antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes eIF2 beta phospho (Ser2)
Tested Reactivity	Hu, Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	eIF2 beta
Species	Human
Immunogen	Peptide sequence around phosphorylation site of serine 2 (M-S(p)-G-D-E) derived from Human eIF2β.
Conjugation	Un-conjugated
Alternate Names	EIF2beta; Eukaryotic translation initiation factor 2 subunit beta; eIF-2-beta; Eukaryotic translation initiation factor 2 subunit 2; EIF2; EIF2B; PPP1R67

Application Instructions

Application table

Application	Dilution
WB	1:500 - 1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

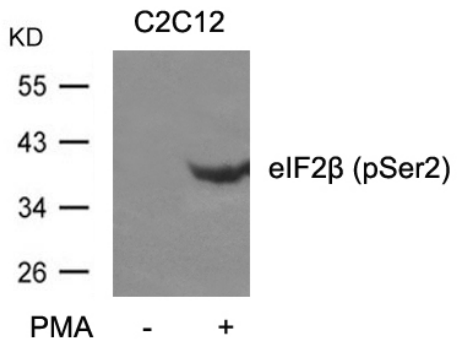
Properties

Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic peptide. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 67204 Mouse GeneID: 8894 Human Swiss-port # P20042 Human Swiss-port # Q99L45 Mouse
Gene Symbol	EIF2S2
Gene Full Name	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa
Background	eIF-2 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.
Function	eIF-2 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. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	38 kDa

Images



ARG51813 anti-eIF2 beta phospho (Ser2) antibody WB image

Western blot: Extracts from C2C12 cells untreated or treated with PMA stained with ARG51813 anti-eIF2 beta phospho (Ser2) antibody.