

eIF2b(phospho-Ser2) Antibody

Catalog No: #11512

Package Size: #11512-1 50ul #11512-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

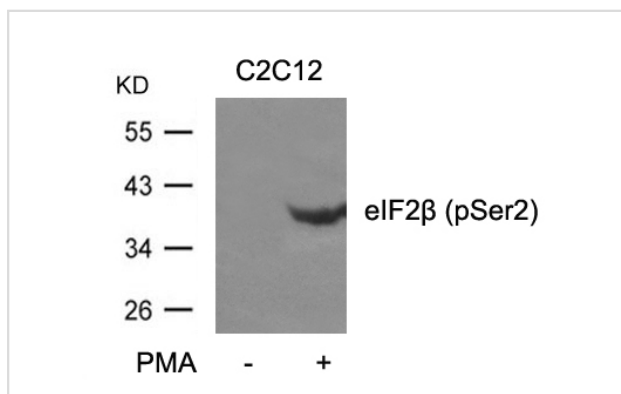
Product Name	eIF2b(phospho-Ser2) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of eIF2b only when phosphorylated at serine 2.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 2 (M-S(p)-G-D-E) derived from Human eIF2β.
Target Name	eIF2b
Modification	Phospho
Other Names	EIF2S2; EIF2; EIF2B
Accession No.	Swiss-Prot: P20042NCBI Protein: NP_003899.2
Uniprot	P20042
GeneID	8894;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 38kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from C2C12 cells untreated or treated with PMA using eIF2b(phospho-Ser2) Antibody #11512.

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.

Structure of the beta subunit of translational initiation factor eIF-2. The DNA sequence and comparative analysis of human chromosome 20. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC).

Note: This product is for in vitro research use only