

## eIF2b(phospho-Ser2) Antibody

Catalog No: #11512

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

## Description

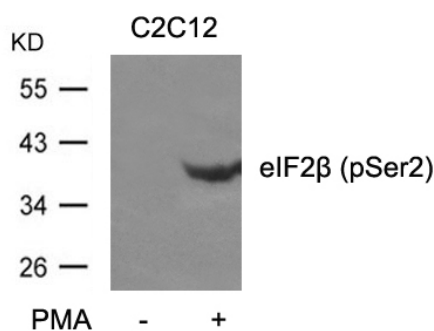
|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                             |
| Conjugates            | Unconjugated                                                                                                                                                                  |
| Target Name           | eIF2b                                                                                                                                                                         |
| Modification          | Phospho                                                                                                                                                                       |
| Other Names           | EIF2S2; EIF2; EIF2B                                                                                                                                                           |
| Accession No.         | Swiss-Prot: P20042NCBI Protein: NP_003899.2                                                                                                                                   |
| Concentration         | 1.0mg/ml                                                                                                                                                                      |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 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 and is not intended for use in humans or animals.