

AP26039PU-S**Polyclonal Antibody to EIF2B / EIF2S2 pSer2 - Aff - Purified**

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| Alternate names: | Eukaryotic translation initiation factor 2 subunit 2, Eukaryotic translation initiation factor 2 subunit beta, eIF-2-beta, eIF2-beta |
| Quantity: | 50 µg |
| Concentration: | 1.0 mg/ml |
| 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. |
| Uniprot ID: | P20042 |
| NCBI: | NP_003899 |
| GeneID: | 8894 |
| Host: | Rabbit |
| Immunogen: | Peptide sequence around phosphorylation site of serine 2 derived from eIF2β. AA Sequence: M-S (p) -G-D-E |
| Format: | State: Liquid Ig fraction Purification: Affinity-chromatography using epitope-specific peptide Buffer System: Phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol |
| Applications: | Western blot: 1:500 - 1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody detects endogenous levels of eIF2β only when phosphorylated at serine 2. |
| Species Reactivity: | Tested: Human, mouse |
| Add. Information: | Molecular weight: 38 kDa |
| Storage: | Store (in aliquots) at -20 °C. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |
| General Readings: | 1. Pathak VK, Nielsen PJ, Trachsel H, Hershey JW. Structure of the beta subunit of translational initiation factor eIF-2. Cell. 1988 Aug 26;54(5):633-9. PubMed PMID: 3044606. |

Pictures:

Western blot analysis of extracts from C2C12 cells untreated or treated with PMA using eIF2 β (phospho-Ser2) Antibody AP26039PU-N.

