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## 35-1309: Polyclonal Antibody to eIF2beta (phospho-Ser2)

**Clonality:** Polyclonal

**Application:** WB

**Reactivity:** Rat, Mouse, Human

 Gene :
 EIF2S2

 Gene ID :
 8894

 Uniprot ID :
 P20042

 Format :
 Purified

Alternative Name : EIF2S2, EIF2, EIF2B

**Isotype:** Rabbit IgG

Immunogen Information: Peptide sequence around phosphorylation site of serine 2 (M-S(p)-G-D-E) derived from Human

eIF2 beta.

## **Description**

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).

## **Product Info**

**Amount :** 50 μl / 100 μl

Content: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl, 0.02% sodium azide and 50% glycerol.

**Storage condition :** Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Predicted MW: 38kd, Western blotting: 1:500~1:1000

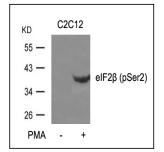


Figure 1: Western blot analysis of extracts from C2C12 cells untreated or treated with PMA using elF2b(phospho-Ser2) Antibody 35-1309 .