

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

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB
<b>Reactivity :</b>	Rat,Mouse,Human
<b>Gene :</b>	EIF2S2
<b>Gene ID :</b>	8894
<b>Uniprot ID :</b>	P20042
<b>Format :</b>	Purified
<b>Alternative Name :</b>	EIF2S2, EIF2, EIF2B
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	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

<b>Amount :</b>	50 µl / 100 µl
<b>Content :</b>	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.
<b>Storage condition :</b>	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

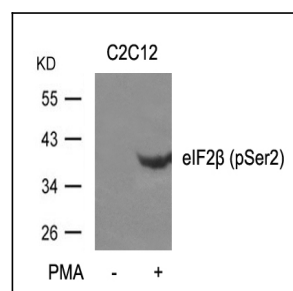


Figure 1: Western blot analysis of extracts from C2C12 cells untreated or treated with PMA using eIF2b(phospho-Ser2) Antibody 35-1309 .