

**eIF2 $\beta$  Polyclonal Antibody**

<b>Catalog No :</b>	YT1508
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	eIF2 $\beta$
<b>Gene Name :</b>	EIF2S2
<b>Protein Name :</b>	Eukaryotic translation initiation factor 2 subunit 2
<b>Human Gene Id :</b>	8894
<b>Human Swiss Prot No :</b>	P20042
<b>Mouse Gene Id :</b>	67204
<b>Mouse Swiss Prot No :</b>	Q99L45
<b>Immunogen :</b>	Synthesized peptide derived from eIF2 $\beta$ . at AA range: 10-90
<b>Specificity :</b>	eIF2 $\beta$ Polyclonal Antibody detects endogenous levels of eIF2 $\beta$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 38kD

**Cell Pathway :** Insulin Receptor

**Background :** eukaryotic translation initiation factor 2 subunit beta(EIF2S2) Homo sapiens Eukaryotic translation initiation factor 2 (EIF-2) functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA and binding to a 40S ribosomal subunit. EIF-2 is composed of three subunits, alpha, beta, and gamma, with the protein encoded by this gene representing the beta subunit. The beta subunit catalyzes the exchange of GDP for GTP, which recycles the EIF-2 complex for another round of initiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015],

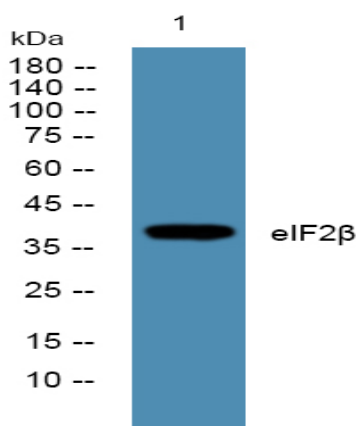
**Function :** function:eIF-2 functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S 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.,similarity:Belongs to the eIF-2-beta/eIF-5 family.,subunit:Heterotrimer composed of an alpha, a beta and a gamma chain. Component of an EIF2 complex at least composed of CUGBP1, CALR, CALR3, EIF2S1, EIF2S2, HSP90B1 and HSPA5.,

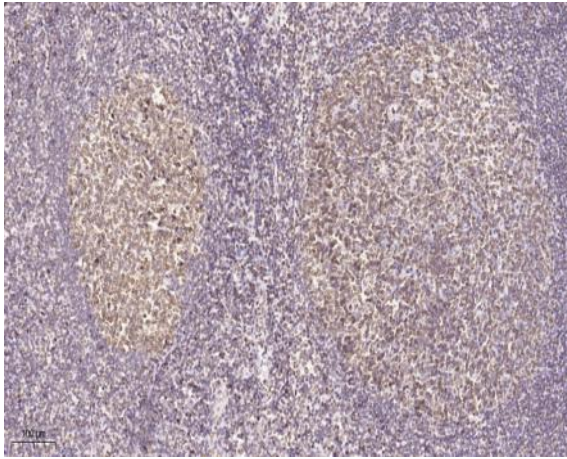
**Subcellular Location :** nucleus,cytoplasm,cytosol,eukaryotic translation initiation factor 2 complex,

**Location :**

**Expression :** Amygdala,Brain,Epithelium,Lung,Muscle,Placenta,Pool

## Products Images





Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45 min).