

### **EIF2G Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55617

## **Specification**

#### **EIF2G Polyclonal Antibody - Product Information**

Application IHC-P, IHC-F, IF,

ICC

Primary Accession
Reactivity
Rat, Pig
Rabbit
Clonality
Calculated MW
P41091
Rat, Pig
Rabbit
Polyclonal
51109

EIF2G Polyclonal Antibody - Additional Information

**Gene ID 1968** 

## **Other Names**

Eukaryotic translation initiation factor 2 subunit 3, 3.6.5.3, Eukaryotic translation initiation factor 2 subunit gamma X, eIF-2-gamma X, eIF-2gX, EIF2S3, EIF2G

# **Format**

0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

### **Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

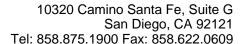
**EIF2G Polyclonal Antibody - Protein Information** 

Name EIF2S3

Synonyms EIF2G

#### **Function**

As a subunit of eukaryotic initiation factor 2 (eIF-2), involved in the early steps of protein synthesis. In the presence of GTP, eIF-2 forms a ternary complex with initiator tRNA Met-tRNAi and then recruits the 40S ribosomal complex and initiation factors





eIF-1, eIF-1A and eIF-3 to form the 43S pre-initiation complex (43S PIC), a step that determines the rate of protein translation. The 43S PIC binds to mRNA and scans downstream to the initiation codon, where it forms a 48S initiation complex by codon-anticodon base pairing. This leads to the displacement of eIF-1 to allow GTPase-activating protein (GAP) eIF-5-mediated hydrolysis of eIF2-bound GTP. Hydrolysis of GTP and release of Pi, which makes GTP hydrolysis irreversible, causes the release of the eIF-2-GDP binary complex from the 40S subunit, an event that is essential for the subsequent joining of the 60S ribosomal subunit to form an elongation-competent 80S ribosome. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF- 2 must be exchanged with GTP by way of a reaction catalyzed by GDP-GTP exchange factor (GEF) eIF-2B (By similarity). Along with its paralog on chromosome Y, may contribute to spermatogenesis up to the round spermatid stage (By similarity).

**Tissue Location**Expressed in testis, brain, liver and muscle.

# **EIF2G Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture