## For Research Use Only

## EIF2S2 Monoclonal antibody

Catalog Number: 68463-1-Ig



**Basic Information** 

Catalog Number: 68463-1-lg

Concentration:

500 ug/ml

Source: Mouse

Isotype:

AG18349

lgG1

BC000461 GeneID (NCBI): 8894

GenBank Accession Number:

**UNIPROT ID:** P20042 Full Name:

eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa Immunogen Catalog Number:

Calculated MW: 38 kDa Observed MW:

50 kDa

**Applications** 

**Tested Applications:** WB, ELISA

Species Specificity: human, mouse, rat

Positive Controls:

WB: A549 cells, LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells,

**Purification Method:** 

Protein G purification

Recommended Dilutions:

WB 1:5000-1:50000

CloneNo.:

2H8E1

NIH/3T3 cells

## **Background Information**

Eukaryotic translation initiation factor 2 (eIF2) is composed of three subunits, eIF2 alpha, eIF2 beta (EIF2S2), and eIF2 gamma, which are present in equal molar amounts. eIF2 beta plays a central role in the maintenance of what is generally considered a rate-limiting step in mRNA translation. In the early steps of protein synthesis, eIF2 beta binds GTP and Met-tRNA and transfers Met-tRNA to the 40S ribosomal subunit. At the end of the initiation process, GTP bound to eIF2 beta is hydrolyzed to GDP and the eIF2/GDP complex is released from the ribosome. The exchange of GDP bound to eIF2 beta for GTP is a prerequisite to binding Met-tRNA and is mediated by eIF2 beta, which recycles the eIF2 complex for another round of initiation.

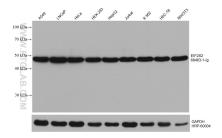
Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68463-1-lg (EIF2S2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.