For Research Use Only

EIF2S2 Monoclonal antibody

Catalog Number:68463-1-Ig

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
68463-1-Ig

Size:
150ul , Concentration: 500 μg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG18349

GenBank Accession Number:
BC000461

GeneID (NCBI):
8894

Full Name:
eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa

Calculated MW:
38 kDa

Observed MW:
50 kDa

Purification Method:
Protein G Magarose purification

CloneNo.:
2H8E1

Recommended Dilutions:
WB 1:5000-1:50000

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, 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.

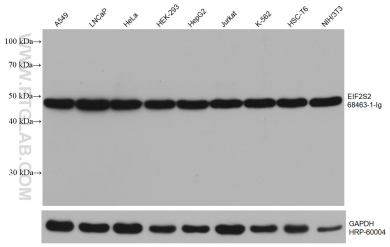
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68463-1-Ig (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.