

For Research Use Only

EIF2S2 Polyclonal antibody

Catalog Number:10227-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

10227-1-AP

Size:

150ul , Concentration: 700 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0269

GenBank Accession Number:

BC000461

GeneID (NCBI):

8894

UNIPROT ID:

P20042

Full Name:

eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa

Calculated MW:

38 kDa

Observed MW:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : HEK-293T cells, mouse testis tissue, mouse liver tissue, L02 cells, HeLa cells, PC-3 cells, HepG2 cells, rat liver tissue, Jurkat cells, NIH/3T3 cells, C6 cells

IP : mouse liver tissue,

IHC : human testis tissue, human liver tissue

IF/ICC : HepG2 cells, L02 cells

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Genee Y Lee	24755469	Cancer Res	WB
Matthias Kroiss	19690462	Fly (Austin)	WB
M Fittschen	25721894	Neurogenetics	WB

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

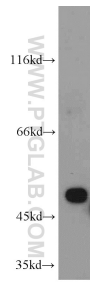
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

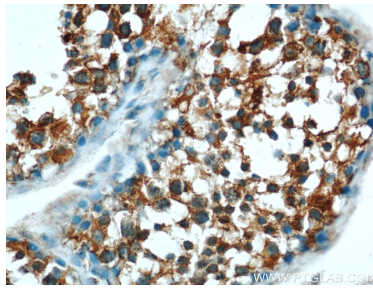
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

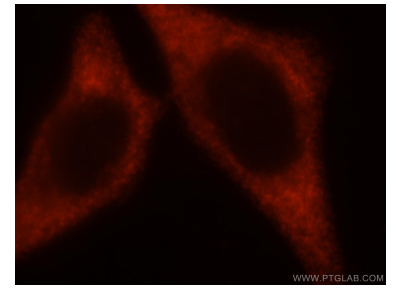
Selected Validation Data



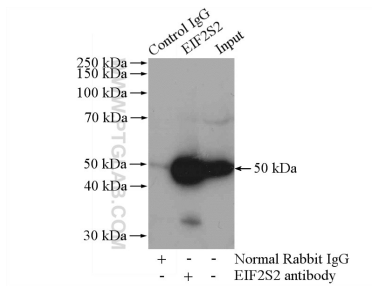
mouse liver tissue were subjected to SDS PAGE followed by western blot with 10227-1-AP (EIF2S2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



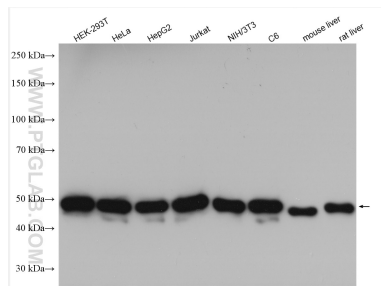
Immunohistochemical analysis of paraffin-embedded human testis using 10227-1-AP (EIF2S2 antibody) at dilution of 1:50 (under 40x lens).



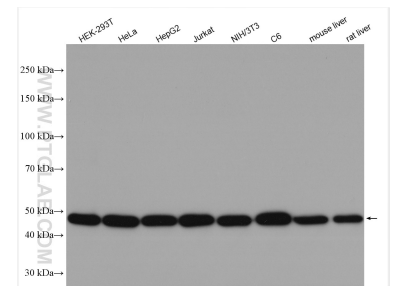
Immunofluorescent analysis of HepG2 cells, using EIF2S2 antibody 10227-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



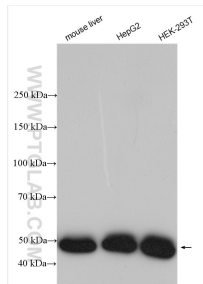
IP result of anti-EIF2S2 (IP:10227-1-AP, 4ug; Detection:10227-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



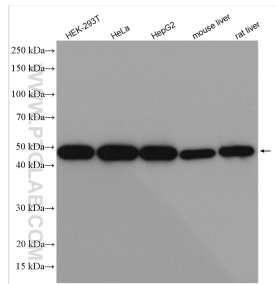
Various lysates were subjected to SDS PAGE followed by western blot with 10227-1-AP (EIF2S2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



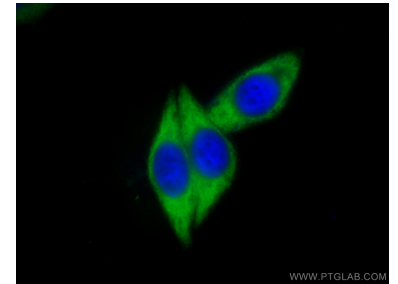
Various lysates were subjected to SDS PAGE followed by western blot with 10227-1-AP (EIF2S2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10227-1-AP (EIF2S2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



HEK-293T cells were subjected to SDS PAGE followed by western blot with 10227-1-AP (EIF2S2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using EIF2S2 antibody (10227-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).