

EIF2S2 Polyclonal Antibody

Catalog number: 10227-1-AP

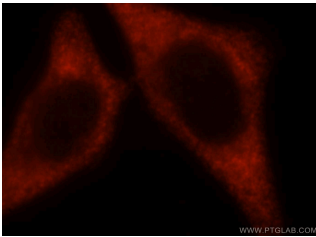
Size: 38 µg/150 µl

Source: Rabbit

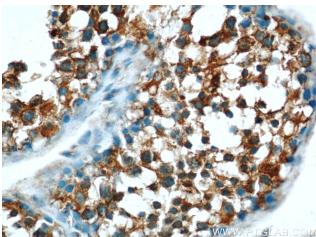
Isotype: IgG

Synonyms:

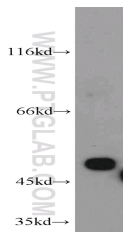
EIF2S2; DKFZp686L18198, eIF 2 beta, EIF2, EIF2B, EIF2beta, EIF2S2



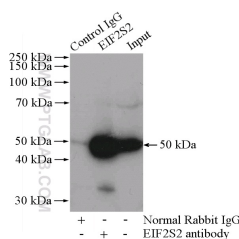
Immunofluorescent analysis of HepG2 cells, using EIF2S2 antibody 10227-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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



mouse liver tissue were subjected to SDS PAGE followed by western blot with 10227-1-AP(EIF2S2 antibody) at dilution of 1:1000



Background

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.

Applications

Tested applications:	ELISA, WB, IHC, IF, IP
Cited applications:	WB
Species specificity:	Human, Mouse; other species not tested.
Cited species:	Mouse
Calculated EIF2S2 MW:	38 kDa
Observed EIF2S2 MW:	50 kDa
Positive WB detected in	Mouse liver tissue, HeLa cells, L02 cells, mouse testis tissue, PC-3 cells
Positive IP detected in	Mouse liver tissue
Positive IHC detected in	Human testis tissue, human liver tissue
Positive IF detected in	HepG2 cells, L02 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0269
GenBank accession number:	BC000461
Gene ID (NCBI):	8894
Full name:	Eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

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