

For Research Use Only

# EIF2S3 Polyclonal antibody

Catalog Number: 11162-1-AP

5 Publications



## Basic Information

**Catalog Number:**

11162-1-AP

**Size:**

450 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1650

**GenBank Accession Number:**

BC019906

**GeneID (NCBI):**

1968

**UNIPROT ID:**

P41091

**Full Name:**

eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa

**Calculated MW:**

52 kDa

**Observed MW:**

52 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

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

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse

**Cited Species:**

human

**Positive Controls:**

WB : mouse thymus tissue, HeLa cells

IP : HeLa cells,

IHC : human lung cancer tissue, human tonsillitis tissue

IF/ICC : HeLa 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

Interacts with GTP and initiator methionyl-tRNA, translation initiation factor eIF2 forms a ternary complex that binds the 40S ribosome and then scans an mRNA to select the AUG start codon for protein synthesis[PMID: 9736774]. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B. EIF2S3 is the core subunit of the heterotrimeric eIF2 complex.[PMID:23063529]

## Notable Publications

Author	Pubmed ID	Journal	Application
Nasim Haghbandish	30699057	Mol Biol Cell	WB
Zhangqi Cao	38538250	Front Biosci (Landmark Ed)	WB
Archana Bairavasundaram Prusty	38368610	Cell Rep	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

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

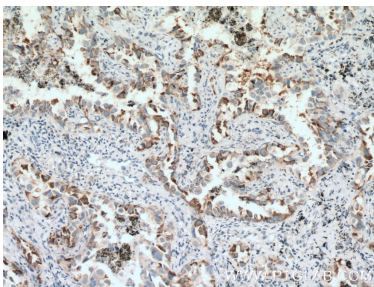
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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

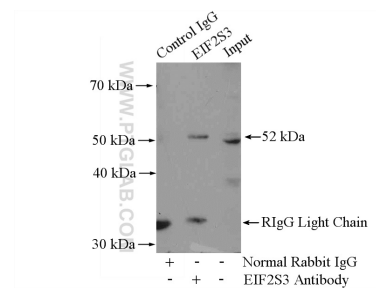
## Selected Validation Data



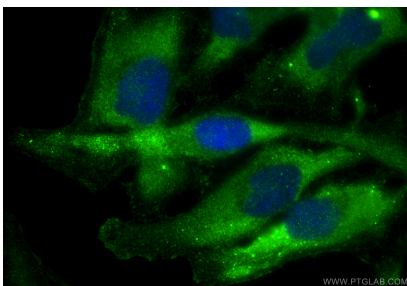
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11162-1-AP (EIF2S3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



mouse thymus tissue were subjected to SDS PAGE followed by western blot with 11162-1-AP (EIF2S3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-EIF2S3 (IP:11162-1-AP, 4ug; Detection:11162-1-AP 1:500) with HeLa cells lysate 2800ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using EIF2S3 antibody (11162-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).