

EIF2B5 Polyclonal antibody

Catalog Number: 29935-1-AP

Basic Information

Catalog Number:

29935-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG32175

GenBank Accession Number:

NM_003907.2

GeneID (NCBI):

8893

UNIPROT ID:

Q13144

Full Name:

eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82kDa

Calculated MW:

80 kDa

Observed MW:

65-80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:200-1:800

IF/ICC 1:200-1:800

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Species Specificity:

Human, mouse, rat

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

Positive Controls:

WB : A549 cells, HEK-293T cells, HT-29 cells, HeLa cells, Jurkat cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue

IHC : human colon cancer tissue,

IF/ICC : MCF-7 cells,

Background Information

EIF2B5 encodes translation initiation factor eIF-2B subunit epsilon protein (PMID 8688466). EIF2B5 mutations compromise the induction of GFAP-expressing astrocytes in VWM (vanishing white matter) leukodystrophy (PMID:15723074, PMID:15776425). The upregulation of EIF2B5 is associated with cancer such as human pulmonary adenocarcinoma cell and breast cancer (PMID:24366584, PMID:24979338). EIF2B5 also has 65kDa truncated protein isoform (PMID:28961236).

Storage

Storage:

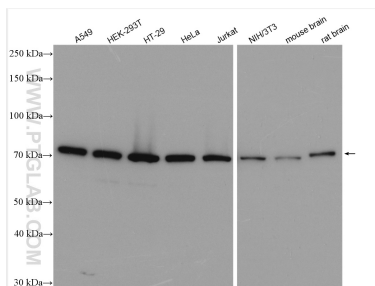
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

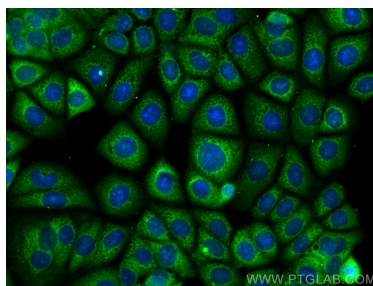
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

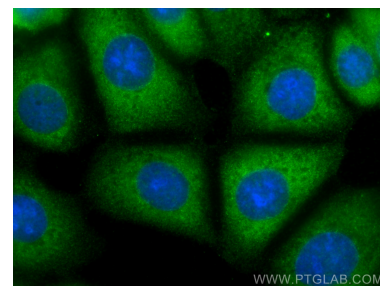
Selected Validation Data



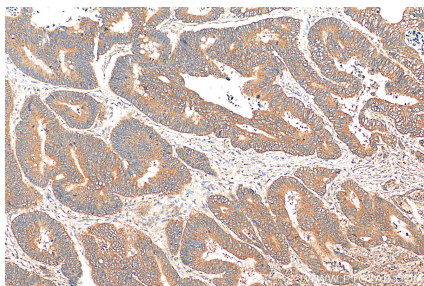
Various lysates were subjected to SDS PAGE followed by western blot with 29935-1-AP (EIF2B5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



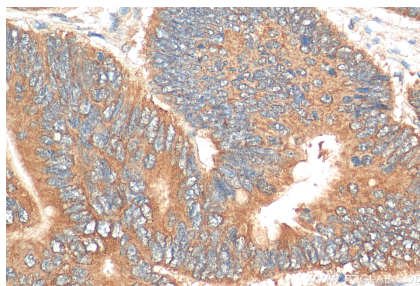
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using EIF2B5 antibody (29935-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using EIF2B5 antibody (29935-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29935-1-AP (EIF2B5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29935-1-AP (EIF2B5 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).