For Research Use Only

## EIF2S1 Polyclonal antibody Catalog Number: 11170-1-AP Featured Product

Featured Product 95 Publications



| Basic Information      | Catalog Number:<br>11170-1-AP   | GenBank Accession Number:<br>BC002513   |  | Purification Method:<br>Antigen affinity purification   |  |
|------------------------|---|---|--|---|--|
|                        | Concentration:  | GenelD (NCB   | il):   | Recommended Dilutions:<br>WB 1:5000-1:50000<br>IP 0.5-4.0 ug for 1.0-3.0 mg of total<br>protein lysate  |  |
|                        | 300 ug/ml   | 1965  |  |   |  |
|                        | Source:<br>Rabbit   | UNIPROT ID:   |  |   |  |
|                        | Isotype:<br>IgG<br>Immunogen Catalog Number:<br>AG1645  | P05198<br>Full Name:  |  | IHC 1:50-1:500  |  |
|                        |   | eukaryotic tr   | anslation initiation<br>ınit 1 alpha, 35kDa  | IF/ICC 1:50-1:500   |  |
|                        |   | Calculated MW:<br>36 kDa  |  |   |  |
|                        |   | Observed MV   | V:   |   |  |
|                        |   | 36 kDa  |  |   |  |
| Applications           | Tested Applications:  |   | Positive Cor   | Positive Controls:  |  |
|                        | WB, IHC, IF/ICC, FC (Intra), IP, ELI  | 5A  |  | WB : MCF-7 cells, HepG2 cells, Jurkat cells, NIH/3T3<br>cells, HSC-T6 cells, PC-12 cells, mouse brain tissue, rat<br>brain tissue<br>IP : HepG2 cells,  |  |
|                        | Cited Applications:<br>WB, IHC, IF, IP  |   |  |   |  |
|                        | Species Specificity:  |   | IP : HepG2 ce  |   |  |
|                        | Cited Species:  |   | IHC : rat colo   | IHC : rat colon tissue,   |  |
|                        |   |   | IF/ICC : Hep   | G2 cells,   |  |
|                        | retrieval may be performed with citrate<br>buffer pH 6.0  |   |  |   |  |
|                        |   |   |  |   |  |
| Background Information | 40S ribosomal subunit, followed<br>ribosomal subunit to form the 80S<br>release of an eIF-2-GDP binary co<br>GDP bound to eIF-2 must exchang<br>EIF2S1 (Gene ID: 1965) share the  | e binding of the ir<br>by mRNA binding<br>i initiation comple<br>mplex. In order fo<br>re with GTP by wa<br>EIF2A symbol/ali<br>of these proteins   | nitiator tRNA to 40S rib<br>to form a 43S preinitian<br>ex is preceded by hydro<br>r eIF-2 to recycle and c<br>y of a reaction catalyze<br>as in common. EIF2S1<br>i function in binding ini   | olysis of the GTP bound to eIF-2 and<br>atalyze another round of initiation, the<br>of by eIF-2B. EIF2A (Gene ID: 83939) and<br>is the alpha subunit of the eIF2 translation<br>tiator tRNA to the 40S ribosomal subunit,   |  |
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|                        | Author Yu Sun San San San San San San San San San Sa  | e binding of the ir<br>by mRNA binding<br>i initiation comple<br>mplex. In order fo<br>e with GTP by wa<br>EIF2A symbol/ali<br>o of these proteins<br>ion-dependent ma                    | hitiator tRNA to 40S rib<br>to form a 43S preinitian<br>ex is preceded by hydro<br>r eIF-2 to recycle and c<br>y of a reaction catalyze<br>as in common. EIF2S1 i<br>function in binding ini<br>inner, whereas eIF2 cor<br>Journal                   | bosomal subunits. This complex binds to a<br>cion complex. Junction of the 60S<br>plysis of the GTP bound to eIF-2 and<br>atalyze another round of initiation, the<br>d by eIF-2B. EIF2A (Gene ID: 83939) and<br>is the alpha subunit of the eIF2 translation<br>tiator tRNA to the 40S ribosomal subunit,<br>mplex requires GTP.<br>Application            |  |
|                        | Author I<br>Yu Sun Sang Sang Sang Sang Sang Sang Sang San   | e binding of the ir<br>by mRNA binding<br>i initiation complemplex. In order for<br>e with GTP by wa<br>EIF2A symbol/ali<br>of these proteins<br>on-dependent ma<br>Pubmed ID<br>54562065 | hitiator tRNA to 40S rib<br>to form a 43S preinitian<br>ex is preceded by hydro<br>r eIF-2 to recycle and c<br>y of a reaction catalyze<br>as in common. EIF2S1 i<br>function in binding ini<br>inner, whereas eIF2 cor<br>Journal<br>J Cell Mol Med | biomal subunits. This complex binds to a<br>cion complex. Junction of the 60S<br>olysis of the GTP bound to eIF-2 and<br>atalyze another round of initiation, the<br>d by eIF-2B. EIF2A (Gene ID: 83939) and<br>is the alpha subunit of the eIF2 translation<br>tiator tRNA to the 40S ribosomal subunit,<br>nplex requires GTP.<br>Application<br>WB<br>WB |  |

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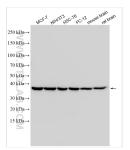
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com

W: ptgcn.com

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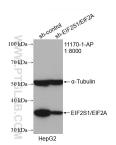
## Selected Validation Data

temperature for 1.5 hours.

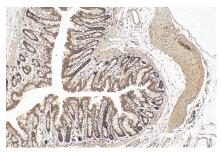


Various lysates were subjected to SDS PAGE followed by western blot with 11170-1-AP (EIF2S1 antibody) at dilution of 1:15000 incubated at room WWW PTGLAB.CO

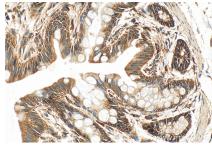
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using EIF2S1/EIF2A antibody (11170-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



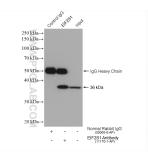
WB result of EIF2S1/EIF2A antibody (11170-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF2S1/EIF2A transfected HepC2 cells.



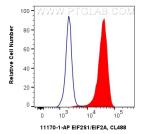
Immunohistochemical analysis of paraffinembedded rat colon tissue slide using 11170-1-AP (EIF2S1/EIF2A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat colon tissue slide using 11170-1-AP (EIF2S1/EIF2A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-EIF2S1/EIF2A (IP:11170-1-AP, 4ug; Detection:11170-1-AP 1:8000) with HepG2 cells lysate 1640 ug.



1X10^6 MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human EIF251/EIF2A (11170-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).