

## Mouse EIF2S1 Monoclonal Antibody | anti-EIF2S1 antibody

EIF2S1 antibody

|                              |                      |                                                                 |
|------------------------------|----------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA74784</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry</b> |
|------------------------------|----------------------|-----------------------------------------------------------------|

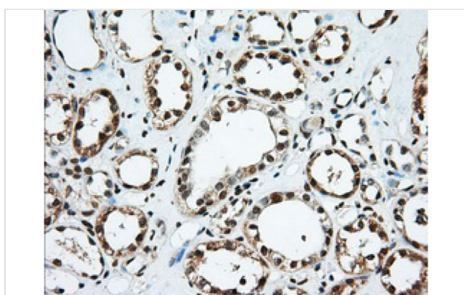
### PRODUCT SYNONYMS

EIF2S1; Monoclonal Antibody; EIF2S1 antibody; Monoclonal EIF2S1; Anti-EIF2S1; Eukaryotic Translation Initiation Factor 2 Subunit 1 Alpha 35Kda; EIF-2; EIF-2A; EIF-2alpha; EIF2; EIF2A; EIFS1 2; EIFS1-2; anti-EIF2S1 antibody

### PRODUCT SPECIFICATIONS

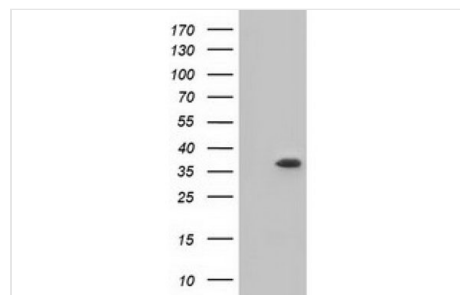
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isotype                                          | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Clone Number                                     | 5D10                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification                              | EIF2S1 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format                                      | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                       |
| Concentration                                    | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sequence Length                                  | 315                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-EIF2S1 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                           |
| Biological Significance                          | The translation initiation factor eIF2 catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, eIF2, and GTP. eIF2 is composed of 3 nonidentical subunits, alpha (36 kDa), beta (38 kDa), and gamma (52 kDa). The rate of formation of the ternary complex is modulated by the phosphorylation state of eIF2-alpha. |
| Cross-Reactivity                                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Immunogen                                        | EIF2S1 antibody was raised in mouse using a full length recombinant protein of human EIF2S1 (NP_004085) produced in HEK293T cells, as the immunogen.                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                          | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                       |

### IMAGES



**IHC (Immunohistochemistry)**

Immunohistochemical analysis of EIF2S1 protein in paraffin embedded Human Kidney tissue using EIF2S1 antibody



**WB (Western Blot)**

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant EIF2S1 protein (Right) or empty vector (Left) detected with EIF2S1 antibody

ADDITIONAL INFORMATION

|                                                      |                                  |
|------------------------------------------------------|----------------------------------|
| Related Product Information for anti-EIF2S1 antibody | Mouse monoclonal EIF2S1 antibody |
| Product Categories/Family for anti-EIF2S1 antibody   | DNA & RNA                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| NCBI GI #                        | 4758256                                                            |
| NCBI GeneID                      | 1965                                                               |
| NCBI Accession #                 | NP_004085                                                          |
| NCBI GenBank Nucleotide #        | NM_004094.4                                                        |
| UniProt Accession #              | P05198                                                             |
| Molecular Weight                 | 36,112 Da                                                          |
| NCBI Official Full Name          | eukaryotic translation initiation factor 2 subunit 1               |
| NCBI Official Synonym Full Names | eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa |
| NCBI Official Symbol             | EIF2S1                                                             |
| NCBI Official Synonym Symbols    | EIF2; EIF-2; EIF2A; EIF-2A; EIF-2alpha                             |
| NCBI Protein Information         | eukaryotic translation initiation factor 2 subunit 1               |
| UniProt Protein Name             | Eukaryotic translation initiation factor 2 subunit 1               |
| UniProt Gene Name                | EIF2S1                                                             |
| UniProt Synonym Gene Names       | EIF2A; eIF-2-alpha; eIF-2A; eIF-2alpha                             |
| UniProt Entry Name               | IF2A_HUMAN                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/eif2s1-antibody-clone-5d10-immunofluorescence-immunohistochemistry-elisa/74784>