

## Rabbit anti-Human EIF2S1 Polyclonal Antibody | anti-EIF2S1 antibody

Anti-EIF2S1 antibody

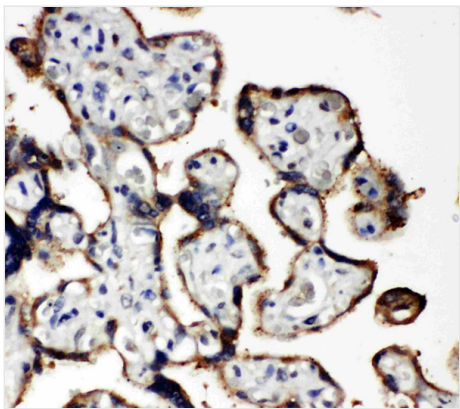
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                       |
|-----------|--------|------------|------------------------------------|
| AAA45449  | Rabbit | Human      | Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

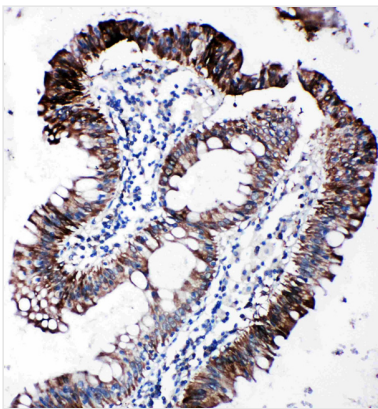
EIF2S1; Polyclonal Antibody; Anti-EIF2S1 antibody; Eukaryotic translation initiation factor 2 subunit 1; eukaryotic translation initiation factor 2; subunit 1 alpha; 35kDa; EIF 2 alpha antibody; EIF 2 antibody; EIF 2A antibody; EIF 2alpha antibody; eIF-2-alpha antibody; eIF-2A antibody; EIF-2alpha antibody; EIF2 alpha antibody; EIF2 antibody; EIF2A antibody; EIF2S1 antibody; Eukaryotic translation initiation factor 2 subunit 1 alpha 35kDa antibody; Eukaryotic translation initiation factor 2 subunit 1 alpha antibody; Eukaryotic translation initiation factor 2 subunit 1 antibody; Eukaryotic translation initiation factor 2 subunit alpha antibody; IF2A\_HUMAN antibody; anti-EIF2S1 antibody

### PRODUCT SPECIFICATIONS

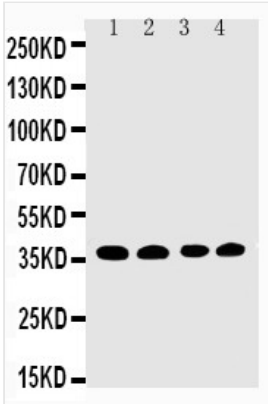
|                                                  |                                                                                                                                                                                                      |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                               |
| Reactivity                                       | Human                                                                                                                                                                                                |
| Clonality                                        | Polyclonal                                                                                                                                                                                           |
| Isotype                                          | IgG                                                                                                                                                                                                  |
| Purity/Purification                              | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                      | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                  | 315                                                                                                                                                                                                  |
| Applicable Applications for anti-EIF2S1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                        |
| Immunogen                                        | A synthetic peptide corresponding to a sequence in the middle region of human EIF2S1 (123-137aa KDEQLESLEFQRTAWV).                                                                                   |
| Contents                                         | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.                                                                                                               |
| Reconstitution                                   | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                 |
| Preparation and Storage                          | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |



IHC (Immunohistochemistry)  
Anti-EIF2S1 antibody, AAA45449, IHC(P)IHC(P): Human Placenta Tissue



IHC (Immunohistochemistry)  
Anti-EIF2S1 antibody, AAA45449, IHC(P)IHC(P): Human Intestinal Cancer Tissue



WB (Western Blot)  
Anti-EIF2S1 antibody, AAA45449, Western blottingLane 1: COLO320 Cell LysateLane 2: CEM Cell LysateLane 3: RAJI Cell LysateLane 4: HT1080 Cell Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-EIF2S1 antibody

**Description:** Rabbit IgG polyclonal antibody for Eukaryotic translation initiation factor 2 subunit 1(EIF2S1) detection. Tested with WB, IHC-P in Human.

**Background:** EIF2S1(Eukaryotic Translation Initiation Factor 2, Subunit 1), also called EIF2-alpha, is a protein that in humans is encoded by the EIF2S1 gene. Hartz(2010) mapped the EIF2S1 gene to chromosome 14q23.3 based on an alignment of the EIF2S1 sequence with the genomic sequence(GRCh37). Ernst et al.(1987) stated that protein synthesis is inhibited due to phosphorylation of Eif2-alpha in hemin-deprived rabbit reticulocyte lysates. HeLa cells subjected to heat shock, serum deprivation, or interferon treatment followed by virus infection also show a correlation between EIF2-alpha phosphorylation and translational repression. Jacob et al.(1989) found that the alpha-Pal transcription factor bound to 2 palindromic sites within the EIF2-alpha promoter and was essential for transcription of the EIF2-alpha gene.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| NCBI GI #                        | 124200                                                             |
| NCBI GeneID                      | 1965                                                               |
| 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; eIF-2-alpha; eukaryotic translation initiation factor 2 subunit alpha |
| UniProt Protein Name          | Eukaryotic translation initiation factor 2 subunit 1                                                                        |
| UniProt Gene Name             | <b>EIF2S1</b>                                                                                                               |
| 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/polyclonal/eif2s1-antibody-immunohistochemistry-western-blot-elisa/45449>