

## Rabbit eIF2alpha Polyclonal Antibody | anti-eIF2alpha antibody

eIF2alpha (phospho Ser51) Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                           |
|-----------|--------|-------------------|--------------------------------------------------------|
| AAA293886 | Rabbit | Human, Mouse, Rat | Immunofluorescence, Immunohistochemistry, Western Blot |

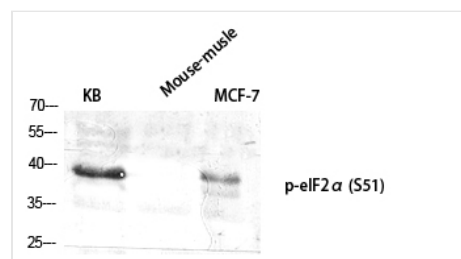
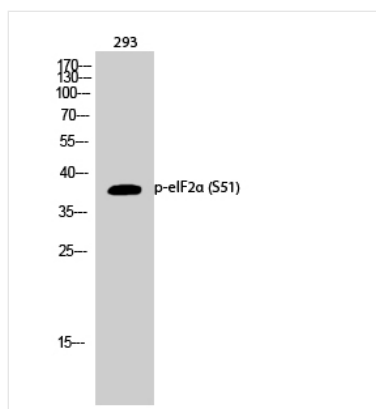
### PRODUCT SYNONYMS

eIF2alpha; Polyclonal Antibody; eIF2alpha (phospho Ser51) Polyclonal Antibody; EIF2S1; EIF2A; Eukaryotic translation initiation factor 2 subunit 1; Eukaryotic translation initiation factor 2 subunit alpha; eIF-2-alpha; eIF-2A; eIF-2alpha; anti-eIF2alpha antibody

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                                                       |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                                                                                                |
| Reactivity                                          | Human, Mouse, Rat                                                                                                                                     |
| Clonality                                           | Polyclonal                                                                                                                                            |
| Applicable Applications for anti-eIF2alpha antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                |
| Preparation and Storage                             | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES


**WB (Western Blot)**

Dilution: IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

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### ADDITIONAL INFORMATION

**Related Product Information for anti-eIF2alpha antibody**

Functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S pre-initiation complex. 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.

### NCBI AND UNIPROT INFORMATION

|           |         |
|-----------|---------|
| NCBI GI # | 4758256 |
|-----------|---------|

|                                  |                                                                                                                             |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| NCBI GeneID                      | 1965                                                                                                                        |
| NCBI Accession #                 | NP_004085.1                                                                                                                 |
| NCBI GenBank Nucleotide #        | NM_004094.4                                                                                                                 |
| UniProt Accession #              | P05198                                                                                                                      |
| Molecular Weight                 | 38 kDa                                                                                                                      |
| 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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif2alpha-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/293886>