

## Rabbit anti-Human, Mouse eIF2B Polyclonal Antibody | anti-eIF2B antibody

eIF2B (Ab-67) Antibody

|                               |                       |                                   |                                     |
|-------------------------------|-----------------------|-----------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA307568</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|-----------------------------------|-------------------------------------|

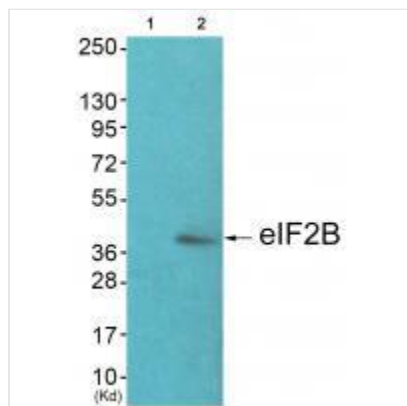
### PRODUCT SYNONYMS

eIF2B; Polyclonal Antibody; eIF2B (Ab-67) Antibody; DKFZp686L18198; eIF-2-beta; EIF2; EIF2B; EIF2beta; anti-eIF2B antibody

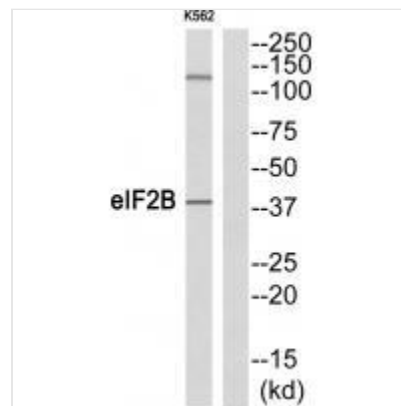
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                             |
| Reactivity                                      | Human, Mouse                                                                                                                                       |
| Clonality                                       | Polyclonal                                                                                                                                         |
| Specificity                                     | The antibody detects endogenous levels of total eIF2B protein.                                                                                     |
| Purity/Purification                             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                              |
| Form/Format                                     | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                   | 1.0 mg/ml (varies by lot)                                                                                                                          |
| Sequence Length                                 | 333                                                                                                                                                |
| Applicable Applications for anti-eIF2B antibody | WB (Western Blot)                                                                                                                                  |
| Immunogen Type                                  | Peptide                                                                                                                                            |
| Immunogen Description                           | Synthesized peptide derived from N-terminal of human eIF2B.                                                                                        |
| Target Name                                     | eIF2B                                                                                                                                              |
| Preparation and Storage                         | Store at -20 degree C                                                                                                                              |

### IMAGES


**WB (Western Blot)**

Western blot analysis of extracts from JK cells (Lane 2), using eIF2B (Ab-67) antibody. The lane on the left is treated with synthesized peptide.


**WB (Western Blot)**

Western blot analysis of extracts from K562 cells, using eIF2B (Ab-67) antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-eIF2B antibody | eIF-2 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 preinitiation 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.Pathak V.K., Cell 54:633-639(1988).Deloukas P., Nature 414:865-871(2001).Olsen J.V., Cell 127:635-648(2006). |
| Product Categories/Family for anti-eIF2B antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| NCBI GI #                        | 29826335                                                          |
| NCBI GeneID                      | 8894                                                              |
| NCBI Accession #                 | NP_003899.2                                                       |
| NCBI GenBank Nucleotide #        | NM_003908.3                                                       |
| UniProt Accession #              | P20042; Q9BVU0; Q9UJE4                                            |
| Molecular Weight                 | 38,388 Da                                                         |
| NCBI Official Full Name          | eukaryotic translation initiation factor 2 subunit 2              |
| NCBI Official Synonym Full Names | eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa |
| NCBI Official Symbol             | EIF2S2                                                            |
| NCBI Official Synonym Symbols    | EIF2; EIF2B; PPP1R67; EIF2beta; eIF-2-beta                        |
| NCBI Protein Information         | eukaryotic translation initiation factor 2 subunit 2              |
| UniProt Protein Name             | Eukaryotic translation initiation factor 2 subunit 2              |
| UniProt Gene Name                | EIF2S2                                                            |
| UniProt Synonym Gene Names       | EIF2B; eIF-2-beta                                                 |
| UniProt Entry Name               | IF2B_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.