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# EIF2G Rabbit pAb

EIF2G Rabbit pAb
Catalog # AP55617

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | P41091 |
| **Predicted** | Rat, Pig, Human, Mouse, Rabbit, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 51109 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human EIF2G |
| **Epitope Specificity** | 21-120/472 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | The protein encoded by this gene is the largest subunit of a heterotrimeric GTP-binding protein involved in the recruitment of methionyl-tRNA(i) to the 40 S ribosomal subunit. [provided by RefSeq, Jan 2010] |

## Additional Information

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| **Gene ID** | 1968 |
| **Other Names** | Eukaryotic translation initiation factor 2 subunit 3, 3.6.5.3, Eukaryotic translation initiation factor 2 subunit gamma X, eIF2-gamma X, eIF2gX, EIF2S3, EIF2G |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | EIF2S3 |
| **Synonyms** | EIF2G |

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| **Function** | Member of the eIF2 complex that functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA (PubMed:31836389). This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form the 43S pre-initiation complex (43S PIC) (By similarity). Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF2 and release of an eIF2-GDP binary complex (By similarity). In order for eIF2 to recycle and catalyze another round of initiation, the GDP bound to eIF2 must exchange with GTP by way of a reaction catalyzed by eIF-2B (By similarity). |
| **Cellular Location** | Cytoplasm, cytosol {ECO:0000250\|UniProtKB:Q09130} |
| **Tissue Location** | Expressed in testis, brain, liver and muscle. |

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.