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# Anti-eIF1A Rabbit Monoclonal Antibody

Catalog # ABO16442

## Product Information

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|---|---|
| **Application** | WB, IHC, IF, ICC, IP, FC |
| **Primary Accession** | P47813 |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Format** | Liquid |
| **Description** | Anti-eIF1A Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

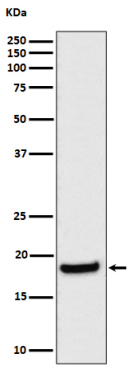
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| **Gene ID** | 1964 |
| **Other Names** | Eukaryotic translation initiation factor 1A, X-chromosomal, eIF-1A X isoform, eIF1A X isoform, Eukaryotic translation initiation factor 4C, eIF-4C, EIF1AX, EIF1A, EIF4C |
| **Calculated MW** | 16460 |
| **Application Details** | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50 |
| **Source** | Eukaryota |
| **Contents** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| **Clone Names** | Clone: 29E78 |
| **Immunogen** | A synthesized peptide derived from human eIF1A |
| **Purification** | Affinity-chromatography |
| **Storage** | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

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| **Name** | EIF1AX |

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| **Synonyms** | EIF1A, EIF4C |
| **Function** | Component of the 43S pre-initiation complex (43S PIC), which binds to the mRNA cap-proximal region, scans mRNA 5'-untranslated region, and locates the initiation codon (PubMed:9732867). This protein enhances formation of the cap-proximal complex (PubMed:9732867). Together with EIF1, facilitates scanning, start codon recognition, promotion of the assembly of 48S complex at the initiation codon (43S PIC becomes 48S PIC after the start codon is reached), and dissociation of aberrant complexes (PubMed:9732867). After start codon location, together with EIF5B orients the initiator methionine-tRNA in a conformation that allows 60S ribosomal subunit joining to form the 80S initiation complex (PubMed:35732735). Is released after 80S initiation complex formation, just after GTP hydrolysis by EIF5B, and before release of EIF5B (PubMed:35732735). Its globular part is located in the A site of the 40S ribosomal subunit (PubMed:35732735). Its interaction with EIF5 during scanning contribute to the maintenance of EIF1 within the open 43S PIC (PubMed:24319994). In contrast to yeast orthologs, does not bind EIF1 (PubMed:24319994). |
| **Cellular Location** | Cytoplasm. |

## Images




Western blot analysis of eIF1A expression in HeLa cell lysate.

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