Datasheet for ABIN7152115

# anti-EIF4A3 antibody (AA 6-166) (Biotin)

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## Overview

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| Quantity: | 100 µg |
| Target: | EIF4A3 |
| Binding Specificity: | AA 6-166 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This EIF4A3 antibody is conjugated to Biotin |
| Application: | ELISA |

## Product Details

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| Immunogen: | Recombinant Human Eukaryotic initiation factor 4A-III protein (6-166AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

## Target Details

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| Target: | EIF4A3 |
| Alternative Name: | EIF4A3 (EIF4A3 Products) |
| Background: | Background: ATP-dependent RNA helicase. Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a |

## Target Details

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| | dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Its RNA-dependent ATPase and RNA-helicase activities are induced by CASC3, but abolished in presence of the MAGOH-RBM8A heterodimer, thereby trapping the ATP-bound EJC core onto spliced mRNA in a stable conformation. The inhibition of ATPase activity by the MAGOH-RBM8A heterodimer increases the RNA-binding affinity of the EJC. Involved in translational enhancement of spliced mRNAs after formation of the 80S ribosome complex. Binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions. Shows higher affinity for single-stranded RNA in an ATP-bound core EJC complex than after the ATP is hydrolyzed. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes), specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S), the function is different from the established EJC assembly. Involved in craniofacial development.<br>Aliases: ATP-dependent RNA helicase DDX48 antibody, ATP-dependent RNA helicase eIF4A-3 antibody, DDX48 antibody, DEAD box protein 48 antibody, eIF-4A-III antibody, eIF4A-III antibody, EIF4A3 antibody, eIF4AIII antibody, Eukaryotic initiation factor 4A-III antibody, Eukaryotic initiation factor 4A-like NUK-34 antibody, Eukaryotic translation initiation factor 4A isoform 3 antibody, hNMP 265 antibody, IF4A3_HUMAN antibody, NMP 265 antibody, NMP265 antibody, Nuclear matrix protein 265 antibody, NUK34 antibody |
| UniProt: | P38919 |

## Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4 |

## Handling

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| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

 