

ARG41238 anti-eIF4E antibody

Package: 100 µl
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Mouse Monoclonal antibody recognizes eIF4E |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 |
| Target Name | eIF4E |
| Species | Human |
| Immunogen | Purified recombinant Human eIF4E protein. |
| Conjugation | Un-conjugated |
| Alternate Names | EIF4E1; EIF4EL1; Eukaryotic translation initiation factor 4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein; CBP; eIF-4E; eIF4E; AUTS19; EIF4F |

Application Instructions

| | | |
|-------------------|--|----------|
| Application table | Application | Dilution |
| | WB | 1:1000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Observed Size | 26 kDa | |

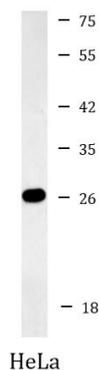
Properties

| | |
|---------------------|---|
| Form | Liquid |
| Purification | Affinity purified |
| Buffer | PBS (pH 7.4), 0.03% Proclin 300 and 50% Glycerol. |
| Preservative | 0.03% Proclin 300 |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| | |
|-----------------------|---|
| Gene Symbol | EIF4E |
| Gene Full Name | eukaryotic translation initiation factor 4E |
| Background | The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015] |
| Function | Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates the binding to the mRNA cap. [UniProt] |
| Calculated Mw | 25 kDa |
| PTM | Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex. [UniProt] |
| Cellular Localization | Cytoplasm, P-body. Cytoplasm. [UniProt] |

Images



ARG41238 anti-eIF4E antibody WB image

Western blot: HeLa cell lysate stained with ARG41238 anti-eIF4E antibody at 1:2000 dilution.