

## ARG51206 anti-eIF4E antibody

Package: 100 µl, 50 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes eIF4E  |
| Tested Reactivity   | Hu, Ms, Rat  |
| Tested Application  | ICC/IF, IHC-P, WB  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | eIF4E  |
| Species             | Human  |
| Immunogen           | Peptide sequence around aa. 207~211 (S-G-S-T-T) derived from Human eIF4E.  |
| 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       |
|-------------------|--|----------------|
|                   | ICC/IF   | 1:100 - 1:200  |
|                   | IHC-P  | 1:50 - 1:100   |
|                   | WB   | 1:500 - 1:1000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |

### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic peptide. Antibodies were purified by affinity-chromatography using epitope-specific peptide.   |
| Buffer              | PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> , pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.  |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol  |
| Concentration       | 1 mg/ml   |
| 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. |

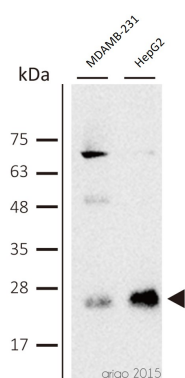
## Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

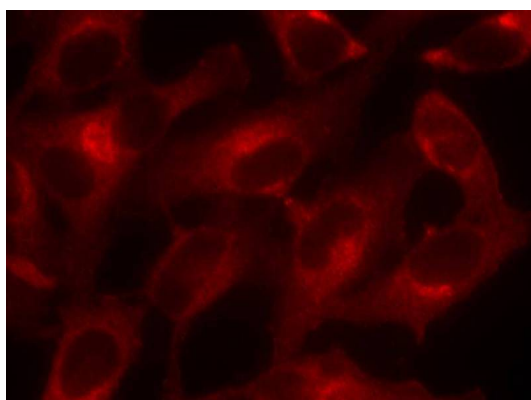
|                |  |
|----------------|--|
| Gene Symbol    | EIF4E  |
| Gene Full Name | eukaryotic translation initiation factor 4E  |
| Background     | Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures.   |
| 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] |
| Research Area  | Gene Regulation antibody   |
| Calculated Mw  | 25 kDa   |
| PTM            | Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex.   |

## Images



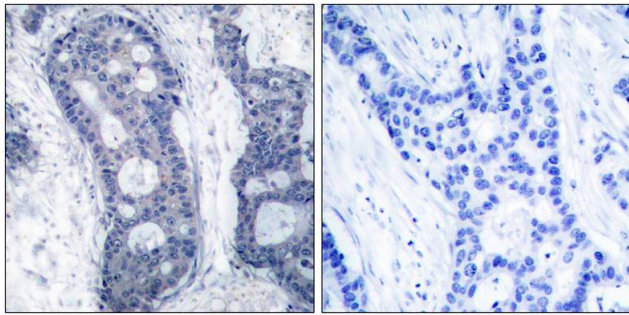
ARG51206 anti-eIF4E antibody WB image

Western blot: MDAMB-231 and HepG2 cell lysates stained with ARG51206 anti-eIF4E antibody at 1:500 dilution.



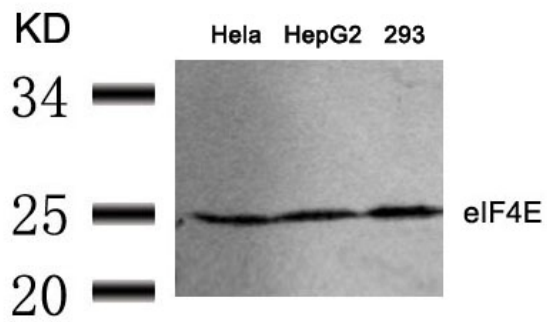
ARG51206 anti-eIF4E antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with anti-eIF4E antibody ARG51206.



ARG51206 anti-eIF4E antibody IHC-P image

Immunohistochemistry: paraffin-embedded human breast carcinoma tissue stained with anti-eIF4E antibody ARG51206 (left) or the same antibody preincubated with blocking peptide (right).



ARG51206 anti-eIF4E antibody WB image

Western Blot: extracts from HeLa, HepG2 and 293 cells stained with anti-eIF4E antibody ARG51206.