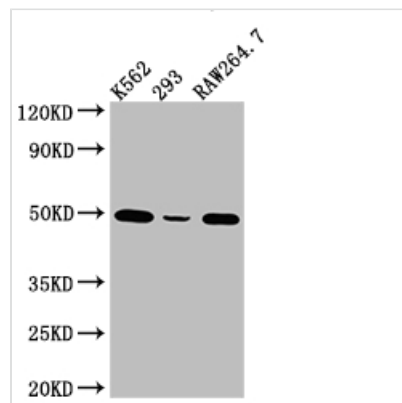




EIF4A1 Antibody

| | |
|----------------------------|---|
| Product Code | CSB-RA190088A0HU |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P60842 |
| Immunogen | A synthesized peptide derived from human eIF4A1 |
| Species Reactivity | Human |
| Tested Applications | ELISA, WB, IF; Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200 |
| Relevance | ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon. |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Purification Method | Affinity-chromatography |
| Isotype | Rabbit IgG |
| Clonality | Monoclonal |
| Product Type | Recombinant Antibody |
| Immunogen Species | Homo sapiens (Human) |
| Research Area | Epigenetics and Nuclear Signaling |
| Gene Names | EIF4A1 |
| Accession NO. | 7C3 |

Image



Western Blot

Positive WB detected in: K562 whole cell lysate, 293 whole cell lysate, RAW264.7 whole cell lysate

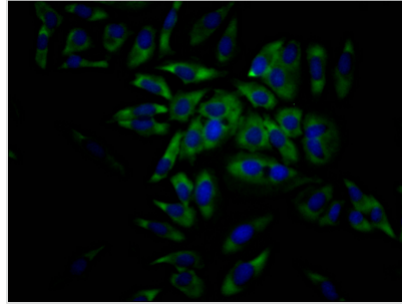
All lanes: eIF4A1 Antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 40, 47 kDa

Observed band size: 50 kDa



Immunofluorescence staining of HeLa Cells with CSB-RA190088A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

In cap-dependent translation, EIF4A1 is an mRNA helicase that is involved in the unwinding of the secondary structure, such as the stem-loops, in the 5'-UTR of the mRNA. This facilitates ribosomal scanning and translation of the oncogenic mRNAs. EIF4A1 has a regulatory role in translating many oncoproteins that have vital roles in several steps of metastases. It also plays an important role in malignant transformation and progression. Recent evidence has shown that eIF4A1 is dysregulated in gastric cancer (GC), hepatocellular carcinoma, ovarian cancer, and others.

This recombinant EIF4A1 antibody was developed with the Single B cell platform. The main process included identification and isolation of single B cells; amplification and cloning of EIF4A1 antibody gene; expression, screening, and identification of antibody specificity. And this EIF4A1 antibody has been validated in ELISA, WB, IF.