

## Anti-EIF4A1 Antibody (5Z864)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5Z864
Purification:	Affinity-chromatography

### Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none"><li>-Positive WB detected in: K562 whole cell lysate, 293 whole cell lysate, RAW264.7 whole cell lysate</li><li>-All lanes: eIF4A1 Antibody at 1:1000</li><li>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution</li><li>-Predicted band size: 40, 47 kDa</li><li>-Observed band size: 50 kDa</li></ul> <p>2. Immunofluorescence staining of Hela Cells with TMAH-00382 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).</p>
Application:	ELISA,IF,WB
Recommended	WB:1:500-1:5000; IF:1:20-1:200.

### Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	A synthetic peptide: Human eIF4A1
Antigen Species:	Human
Gene ID:	1973
Uniprot ID:	P60842
Biology Area:	Epigenetics and Nuclear Signaling

### Research Background

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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