

## Anti-Phospho-EIF4E (Ser209) Antibody (4M118)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4M118
Purification:	Affinity-chromatography

## Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none"><li>-Positive WB detected in 293 whole cell lysate,HepG2 whole cell lysate(treated with Calyculin A or not)</li><li>-All lanes Phospho-EIF4E antibody at 1.2µg/ml</li><li>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution</li><li>-Predicted band size: 25 KDa</li></ul> <p>2. IHC image of TMAH-00894 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.</p>
Application:	ELISA,IHC,WB
Recommended	WB:1:500-1:5000; IHC:1:50-1:200.

## 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 Phospho-EIF4E (S209)
Antigen Species:	Human
Gene ID:	1977
Uniprot ID:	P06730
Synonyms:	p-EIF4E (S209);AUTS19;Phospho-EIF4E (S209);Eukaryotic translation initiation factor 4E; Eukaryotic translation initiation factor 4 E;p-EIF4E (Ser209);Messenger RNA Cap Binding Protein eIF 4E;EIF 4F;mRNA cap binding protein;EIF4E (p-Ser209);IF4E_HUMAN;CBP;EIF4EL1;EIF4E (p-S209);eIF 4F 25 kDa subunit;Eukaryotic translation initiation factor 4E like 1;EIF4F;MGC111573; EIF4E1
Biology Area:	Epigenetics and Nuclear Signaling

### Research 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. In addition to its role in translation initiation, also acts as a regulator of translation and stability in the cytoplasm. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression: in the complex, EIF4E mediates the binding to the mRNA cap. Component of a multiprotein complex that sequesters and represses translation of proneurogenic factors during neurogenesis. In P-bodies, component of a complex that mediates the storage of translationally inactive mRNAs in the cytoplasm and prevents their degradation. May play an important role in spermatogenesis through translational regulation of stage-specific mRNAs during germ cell development.

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

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