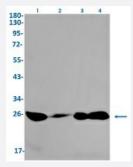


 $\textbf{RecomAb}^{\text{\tiny{TM}}}$ 

# EIF4E (phospho Ser209) recombinant monoclonal antibody, clone R04-5A4

Catalog # RAB02308 Size 100 uL

# **Applications**



### Western Blot

Western Blot analysis of Lane 1: K562, Lane 2: rat brain, Lane 3: C6 and Lane 4: 3T3 lysates with EIF4E (phospho Ser209) recombinant monoclonal antibody, clone R04-5A4 (Cat # RAB02308).

Specification	
Product Description	Rabbit recombinant monoclonal antibody raised against human EIF4E.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g Ser209 of human EIF4E.
Theoretical MW (kDa)	Calculated MW: 25 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	lgG



## **Product Information**

Recommend Usage	Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:100) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

# **Applications**

Western Blot

Western Blot analysis of Lane 1: K562, Lane 2: rat brain, Lane 3: C6 and Lane 4: 3T3 lysates with EIF4E (phospho Ser209) recombinant monoclonal antibody, clone R04-5A4 (Cat # RAB02308).

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

Gene Info — EIF4E	
Entrez GeneID	<u>1977</u>
Protein Accession#	<u>P06730</u>
Gene Name	EIF4E
Gene Alias	CBP, EIF4E1, EIF4EL1, EIF4F, MGC111573
Gene Description	eukaryotic translation initiation factor 4E
Omim ID	133440
Gene Ontology	<u>Hyperlink</u>



#### **Product Information**

#### **Gene Summary**

All eukaryotic cellular mRNAs are blocked at their 5-prime ends with the 7-methylguanosine cap s tructure, m7GpppX (where X is any nucleotide). This structure is involved in several cellular proce sses including enhanced translational efficiency, splicing, mRNA stability, and RNA nuclear export . EIF4E is a eukaryotic translation initiation factor involved in directing ribosomes to the cap struct ure of mRNAs. It is a 24-kD polypeptide that exists as both a free form and as part of a multiprotein complex termed EIF4F. The EIF4E polypeptide is the rate-limiting component of the eukaryotic translation apparatus and is involved in the mRNA-ribosome binding step of eukaryotic protein synthesis. The other subunits of EIF4F are a 50-kD polypeptide, termed EIF4A (see MIM 601102), that possesses ATPase and RNA helicase activities, and a 220-kD polypeptide, EIF4G (MIM 6004 95) (Rychlik et al., 1987 [PubMed 3469651]).[supplied by OMIM

#### **Other Designations**

eIF-4F 25 kDa subunit|eukaryotic translation initiation factor 4E-like 1|mRNA cap-binding protein

## **Pathway**

- Insulin signaling pathway
- mTOR signaling pathway

#### Disease

Tobacco Use Disorder