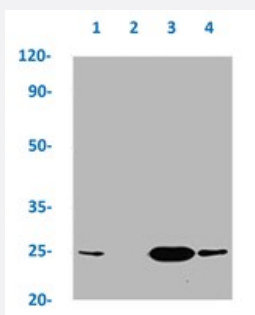


RecomAb™

EIF4E (phospho S209) recombinant monoclonal antibody, clone 1F3

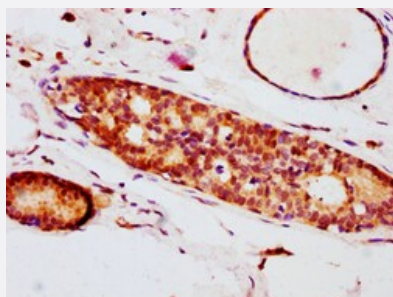
Catalog # RAB04223 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: 293 whole cell lysate (treated with Calyculin A 100 nM/60 mins), Lane 2: 293 whole cell lysate (not treated), Lane 3: HepG2 whole cell lysate (treated with Calyculin A 100 nM/60 mins), Lane 4: HepG2 whole cell lysate (not treated) with EIF4E (phospho S209) recombinant monoclonal antibody, clone 1F3 (Cat # RAB04223).



Immunohistochemistry

Immunohistochemical staining of human breast cancer with EIF4E (phospho S209) recombinant monoclonal antibody, clone 1F3 (Cat # RAB04223) (diluted at 1:100).

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 surrounding S209 of human EIF4E.
Theoretical MW (kDa)	Calculated MW: 25 kD
Reactivity	Human

Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -80 °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: 293 whole cell lysate (treated with Calyculin A 100 nM/60 mins), Lane 2: 293 whole cell lysate (not treated), Lane 3: HepG2 whole cell lysate (treated with Calyculin A 100 nM/60 mins), Lane 4: HepG2 whole cell lysate (not treated) with EIF4E (phospho S209) recombinant monoclonal antibody, clone 1F3 (Cat # RAB04223).

- Immunohistochemistry

Immunohistochemical staining of human breast cancer with EIF4E (phospho S209) recombinant monoclonal antibody, clone 1F3 (Cat # RAB04223) (diluted at 1:100).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — EIF4E

Entrez GeneID	1977
Protein Accession#	P06730
Gene Name	EIF4E
Gene Alias	CBP, EIF4E1, EIF4EL1, EIF4F, MGC111573
Gene Description	eukaryotic translation initiation factor 4E
Omim ID	133440

Gene Ontology

[Hyperlink](#)

Gene Summary

All eukaryotic cellular mRNAs are blocked at their 5-prime ends with the 7-methylguanosine cap structure, m7GpppX (where X is any nucleotide). This structure is involved in several cellular processes 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 structure 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 600495) (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](#)