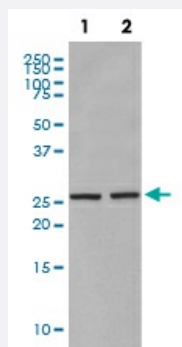


EIF4E (phospho S209) monoclonal antibody, clone DBD-5

Catalog # MAB20511

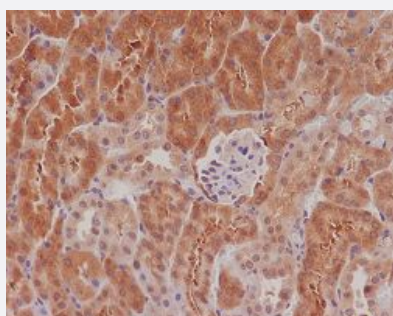
Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of (1) HEK293 cell lysate, (2) Mouse spleen lysate using EIF4E (phospho S209) monoclonal antibody, clone DBD-5.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded mouse kidney using EIF4E (phospho S209) monoclonal antibody, clone DBD-5.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human EIF4E.
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding S209 f human EIF4E.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity purification
Isotype	IgG

Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:50) Western Blot (1:1000-1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.4-0.5 mg/mL BSA, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. 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

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- Immunocytochemistry

- Immunofluorescence

- Immunoprecipitation

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](#)