

Product datasheet for TA503042S

EIF4E Mouse Monoclonal Antibody [Clone ID: OTI5D11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5D11
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human EIF4E(NP_001959) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	24.9 kDa
Gene Name:	eukaryotic translation initiation factor 4E
Database Link:	<u>NP_001959</u> <u>Entrez Gene 13684 MouseEntrez Gene 117045 RatEntrez Gene 1977 Human</u> <u>P06730</u>



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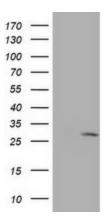
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

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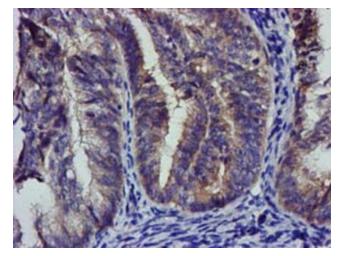
Background:All eukaryotic cellular mRNAs are blocked at their 5-prime ends with the 7-methylguanosine
cap structure, m7GpppX (where X is any nucleotide). This structure is involved in several
cellular processes including enhanced translational efficiency, splicing, mRNA stability, and
RNA nuclear export. 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]

Synonyms:AUTS19; CBP; eIF-4E; EIF4E1; EIF4EL1; EIF4FProtein Pathways:Insulin signaling pathway, mTOR signaling pathway

Product images:

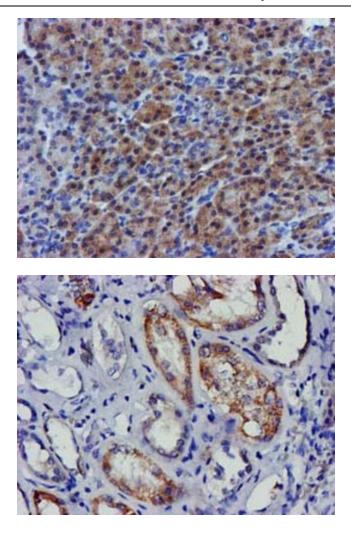


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY EIF4E (Cat# [RC207333], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-EIF4E(Cat# [TA503042]). Positive lysates [LY400723] (100ug) and [LC400723] (20ug) can be purchased separately from OriGene.



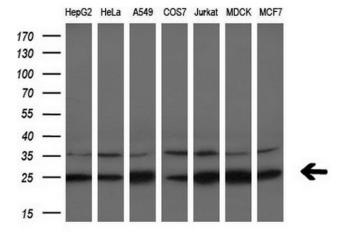
Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-EIF4E mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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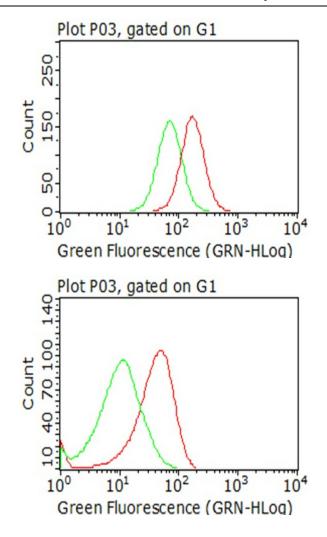


Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-EIF4E mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-EIF4E mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Western blot analysis of extracts (10ug) from 7 different cell lines by using anti-EIF4E monoclonal antibody (1:200).

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Flow cytometric Analysis of permeabilized A549 cells, using anti-EIF4E antibody ([TA503042]), (Red), compared to an IgG isotype control, (green) (1:100).

Flow cytometric Analysis of permeabilized Jurkat cells, using anti-EIF4E antibody ([TA503042]), (Red), compared to an IgG isotype control, (green) (1:100).

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