

Datasheet for ABIN2778784
anti-EIF4E antibody (C-Term)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µL
Target:	EIF4E
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse, Zebrafish (Danio rerio), Cow, Rabbit, Dog, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human EIF4E
Sequence:	TECENREAVT HIGRVYKERL GLPPKIVIGY QSHADTATKS GSTTKNRFVV
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against EIF4E. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	EIF4E
Alternative Name:	EIF4E (EIF4E Products)

Target Details

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 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]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: CBP, EIF4E1, EIF4EL1, EIF4F, MGC111573

Protein Interaction Partner: EIF4EBP1, UBXN11, EIF4ENIF1, KANK2, TRIM22, EIF4EBP3, TDO2, TRIM27, EIF4G1, EIF4EBP2, EIF3B, RPS6KB1, MTOR, PML, NANS, PROSC, AHSA1, PEPD, EIF6, HSPD1, HSPA9, TYMP, CAPN1, ASS1, GEMIN5, PRDM4, CD83, UBC, ITGA4, APP, EIF4H, RPTOR, EIF4A1, RPS6KA5, HSPB2, E

Protein Size: 217

Molecular Weight:	25 kDa
Gene ID:	1977
NCBI Accession:	NM_001968 , NP_001959
UniProt:	P06730
Pathways:	BCR Signaling

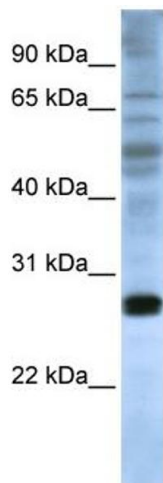
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 217 AA
Restrictions:	For Research Use only

Handling

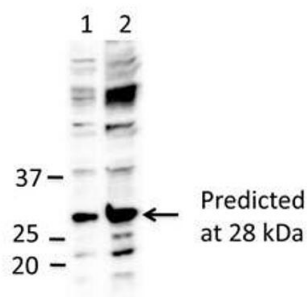
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



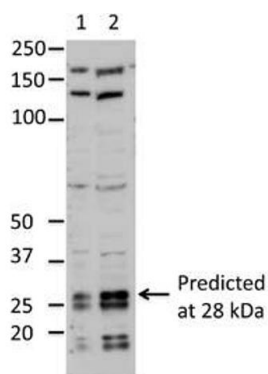
Western Blotting

Image 1. WB Suggested Anti-EIF4E Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human brain



Lane 1 = 10µg HEK293 lysate
Lane 2 = 50µg HEK293 lysate

See Immunoblot 2 for more information.



Lane 1 = 10µg mouse brain extract
Lane 2 = 50µg mouse brain extract

See Immunoblot 3 for more information.

Western Blotting

Image 2. Sample Type: Lane1 = 10ug HEK293 lysate

Lane 2 = 50ug HEK293 lysate

Primary Antibody Dilution: Anti-EIF4E 1:1000

Submitted By: Dr. Veronique Dorval, Laval University

Western Blotting

Image 3. Sample Type: Lane1 = 10ug mouse brain extract

Lane 2 = 50ug mouse brain extract

Primary Antibody Dilution: Anti-EIF4E 1:1000

Submitted By: Dr. Veronique Dorval, Laval University

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2778784.