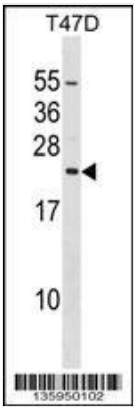
EIF3K Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EIF3K, Polyclonal Antibody
Full Product Name	EIF3K, CT (EIF3K, EIF3S12, Eukaryotic translation initiation factor 3 subunit K, Eukaryotic translation initiation factor 3 subunit 12, Muscle-specific gene M9 protein, PLAC-24, eIF-3 p25, eIF-3 p28) (AP)
Product Gene Name	anti-EIF3K antibody
Product Synonym Names	EIF3K; EIF3S12; Eukaryotic translation initiation factor 3 subunit K; Eukaryotic translation initiation factor 3 subunit 12; Muscle-specific gene M9 protein; PLAC-24; eIF-3 p25; eIF-3 p28
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	25,060 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (39109722..39127595). Location: 19q13.2
OMIM	609596
3D Structure	ModBase 3D Structure for Q9UBQ5
Immunogen	EIF3K antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 175-204 amino acids from the C-terminal region of human EIF3K.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-EIF3K antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF3K antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-EIF3K antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-EIF3K antibody	The 700-kD eukaryotic translation initiation factor-3 (eIF3) is the largest eIF and contains at least 12 subunits, including EIF2S12. eIF3 plays an essential role in translation by binding directly to the 40S ribosomal subunit and promoting formation of the 40S preinitiation complex (Mayeur et al., 2003 [PubMed 14519125]).
Product References and Citations for anti-EIF3K antibody	Zhou, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18139-18144(2008). Lin, Y.M., et al. J. Cell. Sci. 121 (PT 14), 2382-2393 (2008): Masutani, M., et al. EMBO J. 26(14):3373-3383(2007). Damoc, E., et al. Mol. Cell Proteomics 6(7):1135-1146(2007). Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007).

Other Notes	Small volumes of anti-EIF3K antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EIF3K purchase	MBS6295039 is an antibody targeting EIF3K. Also known as EIF3K, CT (EIF3K, EIF3S12, Eukaryotic translation initiation factor 3 subunit K, Eukaryotic translation initiation factor 3 subunit 12, Muscle-specific gene M9 protein, PLAC-24, eIF-3 p25, eIF-3 p28) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-EIF3K antibody
EIF3K Antibody (C-term) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the EIF3K antibody detected the EIF3K protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF3K. It may not necessarily be applicable to this product.

NCBI GI #	10801345
NCBI GeneID	27335
NCBI Accession #	NP_037366.1
UniProt Primary Accession #	Q9UBQ5
UniProt Secondary Accession #	Q96IQ0; Q9Y6D1; A8K0I9
UniProt Related Accession #	Q9UBQ5
GenBank Nucleotide #	NM_013234.2
NCBI Official Full Name	eukaryotic translation initiation factor 3 subunit K
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 3, subunit K
NCBI Official Symbol	EIF3K
NCBI Official Synonym Symbols	M9; ARG134; PLAC24; PTD001; EIF3S12; HSPC029; MSTP001; PLAC-24; PRO1474; EIF3-p28
UniProt Protein Name	Eukaryotic translation initiation factor 3 subunit K
UniProt Synonym Protein Names	Eukaryotic translation initiation factor 3 subunit 12; Muscle-specific gene M9 protein; PLAC-24; eIF-3 p25; eIF-3 p28
Protein Family	Eukaryotic translation initiation factor
UniProt Gene Name	EIF3K
UniProt Synonym Gene Names	EIF3S12; eIF3k
UniProt Entry Name	EIF3K_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 3 subunit K; eIF-3 p25; eIF-3 p28; muscle specific; muscle-specific gene M9 protein; eukaryotic translation initiation factor 3 subunit 12; eukaryotic translation initiation factor 3, subunit 12

UniProt Comments for EIF3K	EIF3K: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S preinitiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Belongs to the eIF-3 subunit K family. Protein type: Translation initiation; Translation Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: eukaryotic translation initiation factor 3 complex; membrane; cytoplasm; cytosol; nucleus Molecular Function: protein binding; translation initiation factor activity; ribosome binding Biological Process: cellular protein metabolic process; translation; translational initiation; gene expression; formation of translation preinitiation complex; regulation of translational initiation
Research Articles on EIF3K	**1.** eIF3k, originally identified as the smallest subunit of eukaryotic translation initiation factor 3 (eIF3) complexes, also localizes to keratin intermediate filaments and physically associates with K18 in epithelial cells.
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