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EIF3K Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16788b

Specification

EIF3K Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9UBQ5
Other Accession	Q9DBZ5, Q3T0V3, NP_037366.1
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**25060**
Antigen Region	**176-204**

EIF3K Antibody (C-term) - Additional Information

Gene ID 27335

Other Names
Eukaryotic translation initiation factor 3 subunit K {ECO:0000255|HAMAP-Rule:MF_03010}, eIF3k {ECO:0000255|HAMAP-Rule:MF_03010}, Eukaryotic translation initiation factor 3 subunit 12 {ECO:0000255|HAMAP-Rule:MF_03010}, Muscle-specific gene M9 protein, PLAC-24, eIF-3 p25 {ECO:0000255|HAMAP-Rule:MF_03010}, eIF-3 p28, EIF3K {ECO:0000255|HAMAP-Rule:MF_03010}

Target/Specificity
This EIF3K antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 176-204 amino acids from the C-terminal region of human EIF3K.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
EIF3K Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF3K Antibody (C-term) - Protein Information

Name EIF3K {ECO:0000255|HAMAP-Rule:MF_03010}

Function Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). 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 pre-initiation 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 (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).

Cellular Location
Nucleus {ECO:0000255|HAMAP-Rule:MF_03010, ECO:0000269|PubMed:15327989}. Cytoplasm {ECO:0000255|HAMAP- Rule:MF_03010, ECO:0000269|PubMed:15327989}

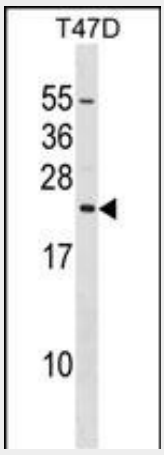
Tissue Location
Ubiquitous, with the highest levels of expression in brain, testis and kidney.

EIF3K Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EIF3K Antibody (C-term) - Images



EIF3K Antibody (C-term) (Cat. #AP16788b) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the EIF3K antibody detected the EIF3K protein (arrow).

EIF3K Antibody (C-term) - Background

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]).

EIF3K Antibody (C-term) - References

Zhou, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18139-18144(2008)
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Damoc, E., et al. Mol. Cell Proteomics 6(7):1135-1146(2007)
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