

## Summary

<b>Production Name</b>	eIF3K Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	EIF3K EIF3K; EIF3S12; ARG134; HSPC029; MSTP001; PTD001; Eukaryotic translation initiation factor 3 subunit K; eIF3k; Eukaryotic translation initiation factor 3 subunit 12; Muscle-specific gene M9 protein; PLAC-24; eIF-3 p25; eIF-3 p28
<b>Alternative Names</b>	
<b>Gene ID</b>	27335.0
<b>SwissProt ID</b>	Q9UBQ5.The antiserum was produced against synthesized peptide derived from human EIF3K. AA range:61-110

## Application

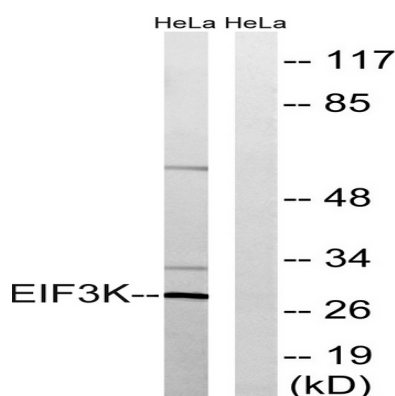
<b>Dilution Ratio</b>	WB 1:500-1:2000, ELISA 1:40000.Not yet tested in other applications.
<b>Molecular Weight</b>	30kDa

## 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]).[supplied by OMIM, Mar 2008],function: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 posttermination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation.,mass spectrometry: PubMed:17322308,mass spectrometry: PubMed:18599441,PTM:The N-terminus is blocked.,similarity:Belongs to the eIF-3 subunit K family.,subunit:Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is composed of 13 subunits: EIF3A, EIF3B, EIF3C, EIF3D, EIF3E, EIF3F, EIF3G, EIF3H, EIF3I, EIF3J, EIF3K, EIF3L and EIF3M. The eIF-3 complex appears to include 3 stable modules: module A is composed of EIF3A, EIF3B, EIF3G and EIF3I; module B is composed of EIF3F, EIF3H, and EIF3M; and module C is composed of EIF3C, EIF3D, EIF3E, EIF3K and EIF3L. EIF3C of module C binds EIF3B of module A and EIF3H of module B, thereby linking the three modules. EIF3J is a labile subunit that binds to the eIF-3 complex via EIF3B. The eIF-3 complex interacts with RPS6KB1 under conditions of nutrient depletion. Mitogenic stimulation leads to binding and activation of a complex composed of FRAP1 and RAPTOR, leading to phosphorylation and release of RPS6KB1 and binding of EIF4B to eIF-3. Interacts with CCND3, but not with CCND1 and CCND2.,tissue specificity:Ubiquitous, with the highest levels of expression in brain, testis and kidney.,

## Research Area

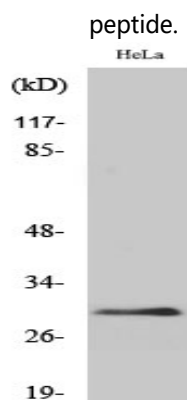
## Image Data



Western blot analysis of lysates from HeLa cells, using EIF3K Antibody. The lane on the right is blocked with the synthesized

**Product Name: eIF3K Rabbit Polyclonal Antibody**  
**Catalog #: APRab10376**

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Western Blot analysis of various cells using eIF3K Polyclonal Antibody diluted at 1 : 1000

### **Note**

For research use only.