


Product datasheet

Anti-eIF3e antibody ab114851

2 Images

Overview

<b>Product name</b>	Anti-eIF3e antibody
<b>Description</b>	Rabbit polyclonal to eIF3e
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Rabbit, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Zebrafish, Rhesus monkey, Gorilla, Orangutan, Medaka fish 
<b>Immunogen</b>	Synthetic peptide, corresponding to a region within amino acids 1-50 of Human eIF3e (NP_001559.1).
<b>Positive control</b>	HeLa, 293T and NIH3T3 whole cell lysates

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate Note: pH 7 to 8
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab114851** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 52 kDa.
IP		Use at 2-5 µg/mg of lysate.

## Target

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### 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-tRNA<sub>i</sub> 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. Required for nonsense-mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway. May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins.

### Tissue specificity

Ubiquitously expressed. Expressed at highest levels in appendix, lymph, pancreas, skeletal muscle, spleen and thymus.

### Sequence similarities

Belongs to the eIF-3 subunit E family.  
Contains 1 PCI domain.

### Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

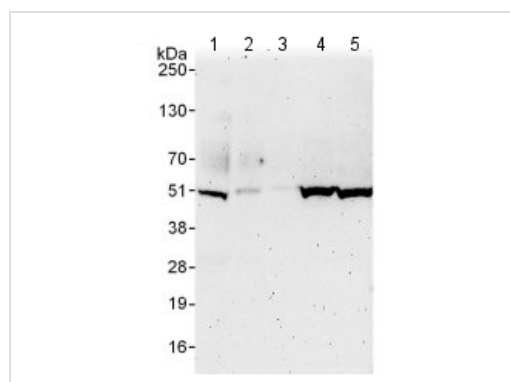
### Cellular localization

Cytoplasm. Nucleus > PML body.

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## Images

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Western blot - Anti-eIF3e antibody (ab114851)

**All lanes** : Anti-eIF3e antibody (ab114851) at 0.1 µg/ml

**Lane 1** : HeLa whole cell lysate at 50 µg

**Lane 2** : HeLa whole cell lysate at 15 µg

**Lane 3** : HeLa whole cell lysate at 5 µg

**Lane 4** : 293T whole cell lysate at 50 µg

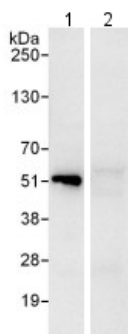
**Lane 5** : NIH3T3 whole cell lysate at 50 µg

Developed using the ECL technique

**Predicted band size** : 52 kDa

**Exposure time** : 3 minutes

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Detection of eIF3e in Immunoprecipitates of HeLa whole cell lysate (1 mg for IP, 20% of IP loaded) using ab114851 at 3  $\mu\text{g}/\text{mg}$  lysate for IP (Lane 1) and at 1  $\mu\text{g}/\text{ml}$  for subsequent Western blot detection. Lane 2 represents control IgG IP. Detection: Chemiluminescence with an exposure time of 10 seconds.

Immunoprecipitation - Anti-eIF3e antibody  
(ab114851)

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