


## Product datasheet

### Anti-eIF3A antibody - N-terminal ab155412

4 Images

#### Overview

<b>Product name</b>	Anti-eIF3A antibody - N-terminal
<b>Description</b>	Rabbit polyclonal to eIF3A - N-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Recombinant fragment <b>Predicted to work with:</b> Mouse, Rat, Cow, Xenopus laevis, Xenopus tropicalis 
<b>Immunogen</b>	Recombinant fragment, corresponding to a region within amino acids 121-347 of Human eIF3A (Uniprot: Q14152)
<b>Positive control</b>	293T; A431; Jurkat or Raji cell lysates, Hepatoma tissue, A431 cells
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 78.99% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

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**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab155412 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		1/500 - 1/3000. Predicted molecular weight: 166 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

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**Target****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 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. Essential for the initiation of translation on type-1 viral ribosomal entry sites (IRESs), like for HCV, PV, EV71 or BEV translation (PubMed:23766293, PubMed:24357634). In case of FCV infection, plays a role in the ribosomal termination-reinitiation event leading to the translation of VP2 (PubMed:18056426).

**Sequence similarities**

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

**Post-translational modifications**

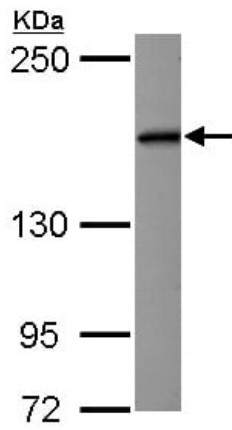
Phosphorylated. Phosphorylation is enhanced upon serum stimulation.

**Cellular localization**

Cytoplasm.

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**Images**

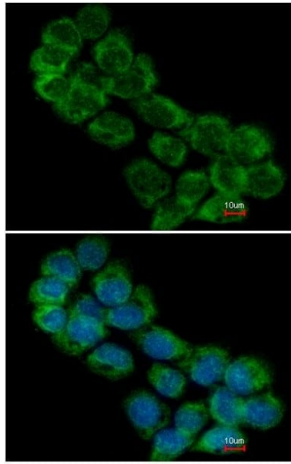


Western blot - Anti-eIF3A antibody - N-terminal (ab155412)

Anti-eIF3A antibody - N-terminal (ab155412) at 1/500 dilution + Raji whole cell lysate at 30  $\mu$ g

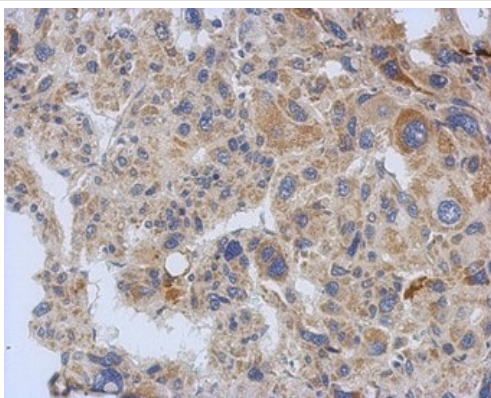
**Predicted band size:** 166 kDa

5% SDS PAGE



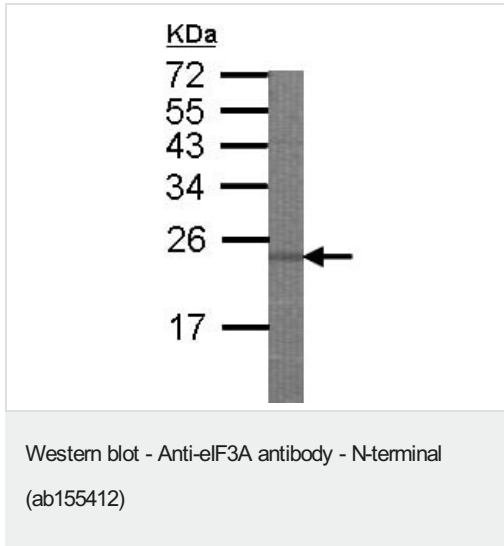
Immunocytochemistry/ Immunofluorescence - Anti-eIF3A antibody - N-terminal (ab155412)

Immunofluorescence analysis of methanol fixed A431 cells, labeling eIF3A with ab155412 at 1/200. Lower image shows costaining with Hoechst 33342.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF3A antibody - N-terminal (ab155412)

Immunohistochemical analysis of paraffin embedded Hepatoma tissue, labeling eIF3A with ab155412 at 1/500.



Anti-eIF3A antibody - N-terminal (ab155412) at 1/90000 dilution +  
24kDa recombinant eIF3A at 0.1 µg

**Predicted band size:** 166 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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