abcam

Product datasheet

Anti-eIF3A antibody ab264259

2 Images

Overview

Product name	Anti-eIF3A antibody
Description	Rabbit polyclonal to eIF3A
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Zebrafish
Immunogen	Synthetic peptide within Human eIF3A aa 1-50. The exact sequence is proprietary. NP_003741.1 Database link: **Q14152**
Positive control	WB: HeLa, HEK-293T and NIH/3T3 whole cell lysates. IP: HeLa whole cell lysate.
General notes	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. 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&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate pH 7 to 8
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab264259 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: 167 kDa.
IP		Use at 2-5 µg/mg of lysate.

Target

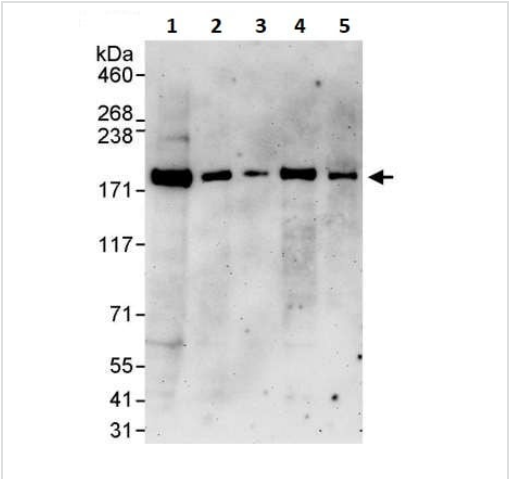
Function Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to 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. 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.

Images



Western blot - Anti-eIF3A antibody (ab264259)

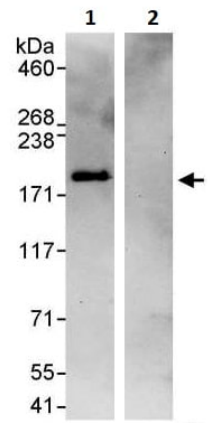
All lanes : Anti-eIF3A antibody (ab264259) at 0.1 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) 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 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 50 µg
Lane 5 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 167 kDa

Exposure time: 3 minutes



Immunoprecipitation - Anti-eIF3A antibody (ab264259)

eIF3A was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) using ab264259 at 3 µg/mg lysate. Western blot was performed on the immunoprecipitates using ab264259 at 1 µg/ml.

Lane 1: ab264259 IP in HeLa whole cell lysate.

Lane 2: Control IgG IP in Hela whole cell lysate.

Exposure time: 30 seconds.

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