

Product datasheet

Anti-eIF3g antibody [EPR16146] - N-terminal ab191422

Recombinant RabMAb

7 Images

Overview

Product name	Anti-eIF3g antibody [EPR16146] - N-terminal
Description	Rabbit monoclonal [EPR16146] to eIF3g - N-terminal
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	293T, Molt-4, HepG2, K562, PC-12 and NIH/3T3 cell lysate. Human colonic carcinoma tissue. Rat skeletal muscle tissue. HepG2 cells. 293T cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16146
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab191422 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
Flow Cyt (Intra)		1/80. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 40 kDa (predicted molecular weight: 36 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/150.

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_i 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 post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. This subunit can bind 18S rRNA.

Sequence similarities

Belongs to the eIF-3 subunit G family.
Contains 1 RRM (RNA recognition motif) domain.

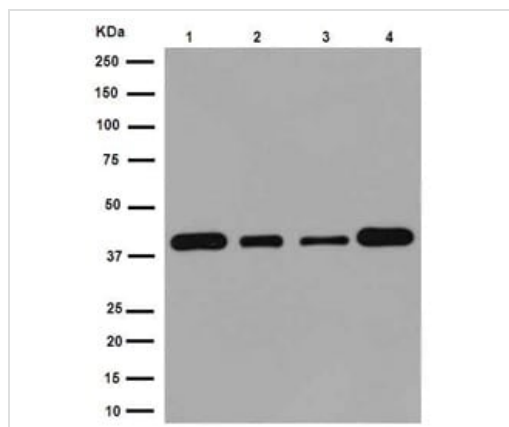
Post-translational modifications

Phosphorylated. Phosphorylation is enhanced upon serum stimulation.

Cellular localization

Cytoplasm. Nucleus. Cytoplasm > perinuclear region. Colocalizes with AIFM1 in the nucleus and perinuclear region.

Images



Western blot - Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422)

All lanes : Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422) at 1/10000 dilution

Lane 1 : 293T cell lysate

Lane 2 : Molt-4 cell lysate

Lane 3 : HepG2 cell lysate

Lane 4 : K562 cell lysate

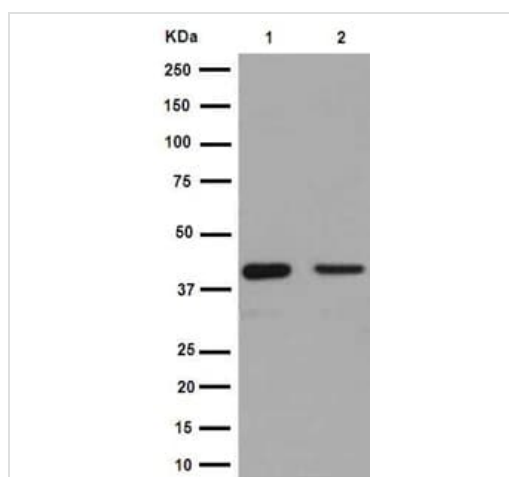
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa

Observed band size: 40 kDa



Western blot - Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422)

All lanes : Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422) at 1/1000 dilution

Lane 1 : PC-12 cell lysate

Lane 2 : NIH/3T3 cell lysate

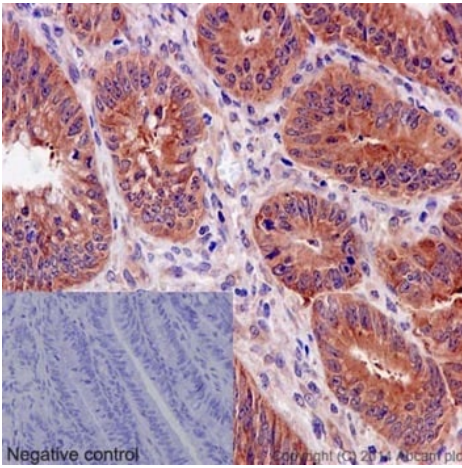
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa

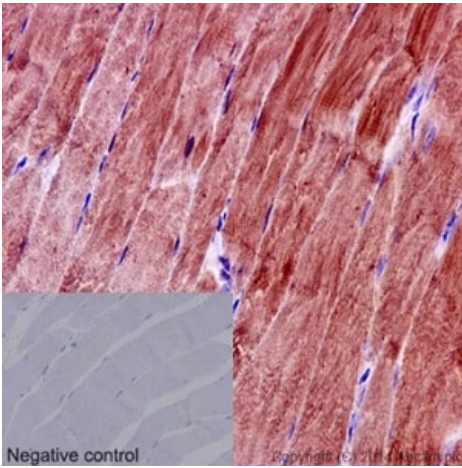
Observed band size: 40 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422)

Immunohistochemical analysis of paraffin-embedded human colonic carcinoma tissue sections labeling eIF3g using ab191422 at a 1/50 dilution. A ready to use HRP polymer for Rabbit IgG was used as the secondary. Hematoxylin counterstain. Negative control uses PBS instead of primary antibody.

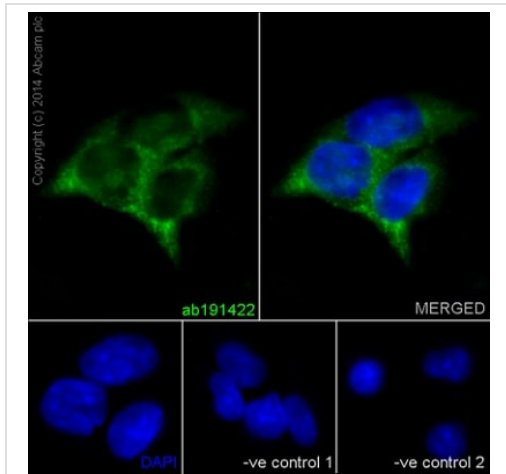
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422)

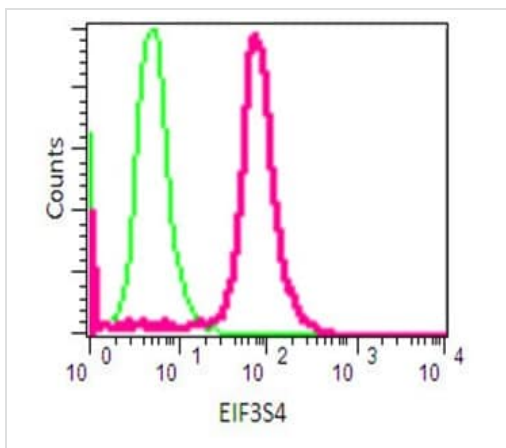
Immunohistochemical analysis of paraffin embedded rat skeletal muscle tissue sections labeling eIF3g using ab191422 at a 1/50 dilution. A ready to use HRP polymer for Rabbit IgG was used as the secondary. Hematoxylin counterstain. Negative control uses PBS instead of primary antibody.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422)

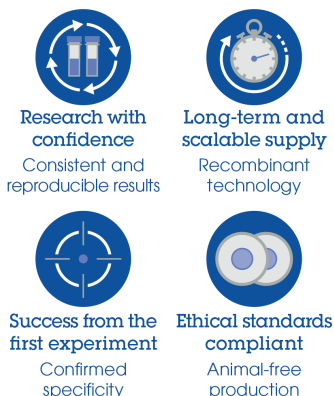
Immunofluorescent analysis of 4% paraformaldehyde fixed HepG2 cells labeling eIF3g using ab191422 at a 1/150 dilution. A Goat anti rabbit IgG (Alexa Fluor®488) ([ab150077](#)) was used as the secondary at a 1/200 dilution. Counterstain DAPI. Cells were permeabilized using 0.1% Triton X-100. The two negative controls: Primary ab concentration (anti-eIF3G), Secondary ab (Goat anti mouse IgG (Alexa Fluor®594)) is 1/400 dilution.



Flow Cytometry (Intracellular) - Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422)

Intracellular Flow Cytometry analysis of 2% paraformaldehyde fixed 293T cells labeling eIF3g using ab191422 at a 1/80 dilution (pink). Goat anti rabbit IgG (FITC) used as the secondary at a 1/150 dilution. Isotype control Rabbit monoclonal IgG (green).

Why choose a recombinant antibody?



Anti-eIF3g antibody [EPR16146] - N-terminal (ab191422)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors