

Anti-eIF3g antibody [EPR16147] ab192601

Recombinant RabMAb

5 Images

Overview

Product name	Anti-eIF3g antibody [EPR16147]
Description	Rabbit monoclonal [EPR16147] to eIF3g
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	293T, MOLT4, K562, mouse Raw 264.7, mouse NIH 3T3 and rat PC12 cell lysates. HeLa 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: 59% PBS, 40% Glycerol, 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16147
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab192601 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		1/1000 - 1/2000. Detects a band of approximately 40 kDa (predicted molecular weight: 36 kDa).
ICC/IF		1/100.
IP		1/40.

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.

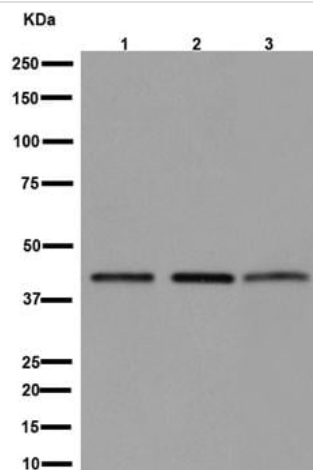
Post-translational modifications

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 [EPR16147]
(ab192601)

All lanes : Anti-eIF3g antibody [EPR16147] (ab192601) at 1/1000 dilution

Lane 1 : 293T cell lysate

Lane 2 : MOLT-4 cell lysate

Lane 3 : K562 cell lysate

Lysates/proteins at 20 µg per lane.

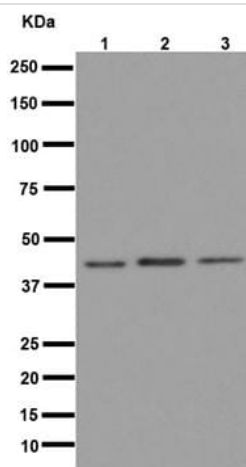
Secondary

All lanes : goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 36 kDa

Observed band size: 40 kDa



Western blot - Anti-eIF3g antibody [EPR16147]
(ab192601)

All lanes : Anti-eIF3g antibody [EPR16147] (ab192601) at 1/1000 dilution

Lane 1 : mouse Raw 264.7 cell lysate

Lane 2 : rat PC12 cell lysate

Lane 3 : mouse NIH 3T3 cell lysate

Lysates/proteins at 10 µg per lane.

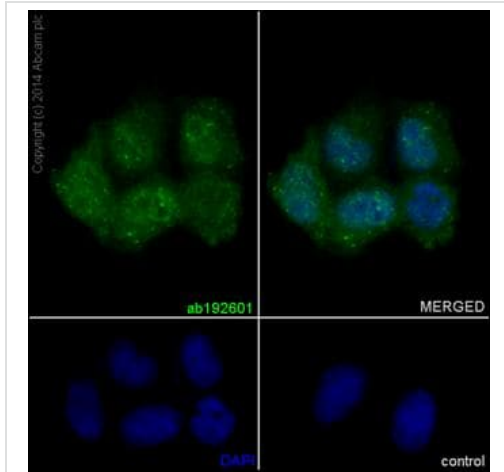
Secondary

All lanes : goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

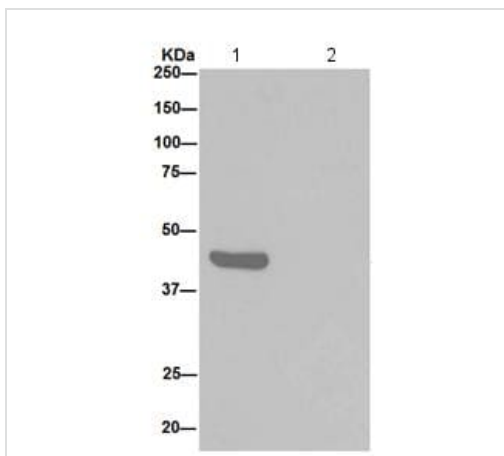
Predicted band size: 36 kDa

Observed band size: 40 kDa



Immunocytochemistry/ Immunofluorescence - Anti-eIF3g antibody [EPR16147] (ab192601)

Immunofluorescence analysis of, paraformaldehyde-fixed, HeLa cells labeling eIF3g with ab192601 at a 1/100 dilution (7.0 µg/ml). As secondary antibody goat anti-rabbit IgG (Alexa Fluor®488) **ab150077** was used at a 1/400 dilution. In blue DAPI staining.



Immunoprecipitation - Anti-eIF3g antibody [EPR16147] (ab192601)

Western blot analysis on immunoprecipitation from 1) K562 cell lysate and 2) PBS, labeling eIF3g using ab192601 at 1/40 dilution and HRP-conjugated anti-rabbit IgG specific to the non-reduced form of rabbit IgG at a 1/1500 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-eIF3g antibody [EPR16147] (ab192601)

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

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