


Product datasheet

Anti-eIF3B antibody [EPR5804] ab133601

Recombinant RabMAb

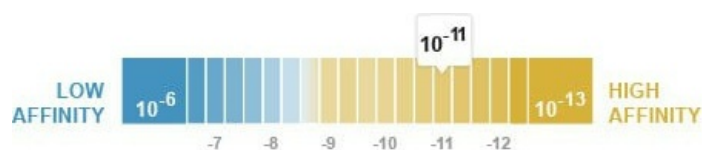
[1 Abreviews](#) [7 References](#) [5 Images](#)

Overview

Product name	Anti-eIF3B antibody [EPR5804]
Description	Rabbit monoclonal [EPR5804] to eIF3B
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt (Intra) Unsuitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human eIF3B aa 150-250. The exact sequence is proprietary.
Positive control	A431, 293T, Jurkat, HeLa and Caco 2 cell lysate; HeLa cells ICC/IF: HeLa cells
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 5.60 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20
-----------------------	----------

Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity Protein A purified
Clonality Monoclonal
Clone number EPR5804
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133601 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		1/10000 - 1/50000. Detects a band of approximately 116 kDa (predicted molecular weight: 92 kDa).
ICC/IF		1/500.
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IHC-P.

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.

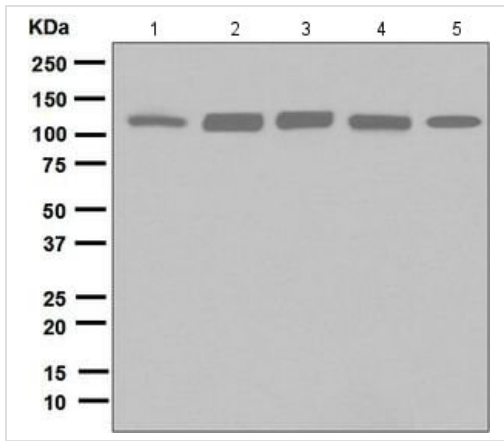
Sequence similarities Belongs to the eIF-3 subunit B family.
Contains 1 RRM (RNA recognition motif) domain.
Contains 5 WD repeats.

Domain The RRM domain mediates interaction with EIF3J.

Post-translational modifications Phosphorylated. Phosphorylation is enhanced upon serum stimulation.

Cellular localization Cytoplasm.

Images



Western blot - Anti-eIF3B antibody [EPR5804] (ab133601)

All lanes : Anti-eIF3B antibody [EPR5804] (ab133601) at 1/10000 dilution

Lane 1 : A431 cell lysate

Lane 2 : 293T cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : HeLa cell lysate

Lane 5 : Caco 2 cell lysate

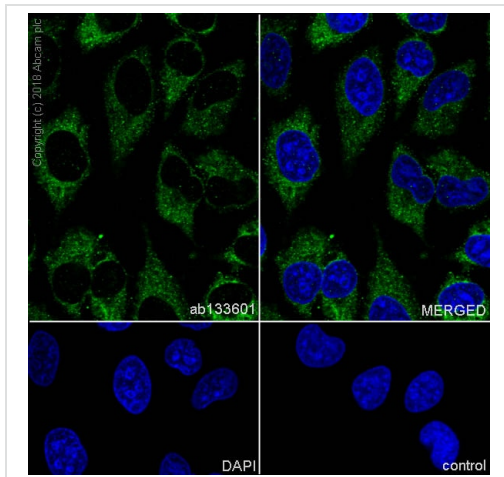
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

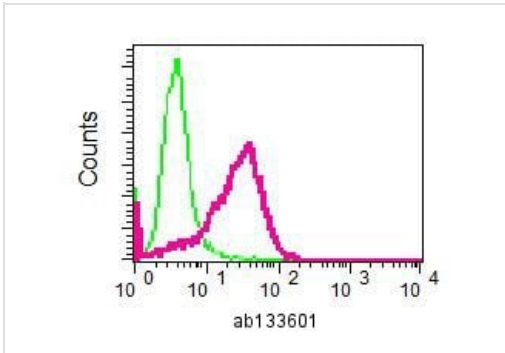
Predicted band size: 92 kDa

Observed band size: 116 kDa



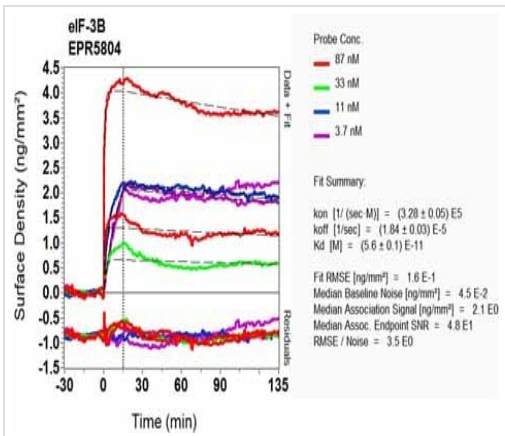
Immunocytochemistry/ Immunofluorescence - Anti-eIF3B antibody [EPR5804] (ab133601)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (human cervix adenocarcinoma epithelial cell) cells labeling eIF3B with purified ab133601 at 1/500 dilution (4.1 µg/mL). Cells were fixed in 100% Methanol. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain.



Flow Cytometry (Intracellular) - Anti-eIF3B antibody [EPR5804] (ab133601)

Intracellular flow cytometric analysis of permeabilized HeLa cells labelling eIF3B with ab133601 at 1/10 (red) with a Rabbit IgG control (green).



OIR-D Scanning - Anti-eIF3B antibody [EPR5804] (ab133601)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-eIF3B antibody [EPR5804] (ab133601)

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