

Product datasheet

Anti-EIF2S2/EIF2B antibody [EPR15833(B)] ab184549

Recombinant RabMAb

4 Images

Overview

Product name	Anti-EIF2S2/EIF2B antibody [EPR15833(B)]
Description	Rabbit monoclonal [EPR15833(B)] to EIF2S2/EIF2B
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, ICC/IF, IP, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human EIF2S2/EIF2B aa 100-200 (internal sequence). The exact sequence is proprietary. Database link: P20042
Positive control	HepG2, HeLa, 293T and Jurkat cell lysates. HeLa and 293 cells.
General notes	

This product was previously labelled as EIF2S2

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

This product is a [recombinant rabbit monoclonal antibody](#).

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	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15833(B)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab184549** 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		1/160. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/500.
IP		1/40 - 1/60.
WB		1/10000 - 1/50000. Detects a band of approximately 49 kDa (predicted molecular weight: 38 kDa).

Target

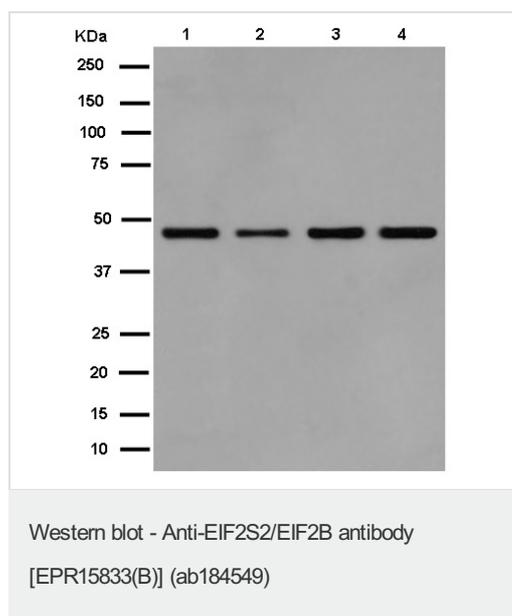
Function

eIF-2 functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B.

Sequence similarities

Belongs to the eIF-2-beta/eIF-5 family.

Images



All lanes : Anti-EIF2S2/EIF2B antibody [EPR15833(B)] (ab184549) at 1/20000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : 293T cell lysate

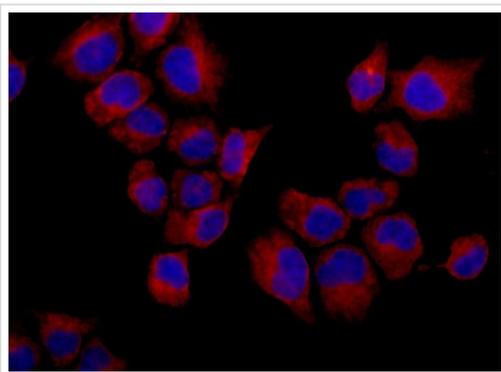
Lane 4 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

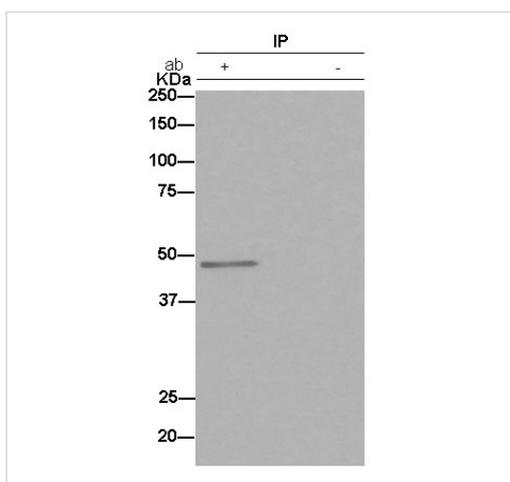
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 38 kDa



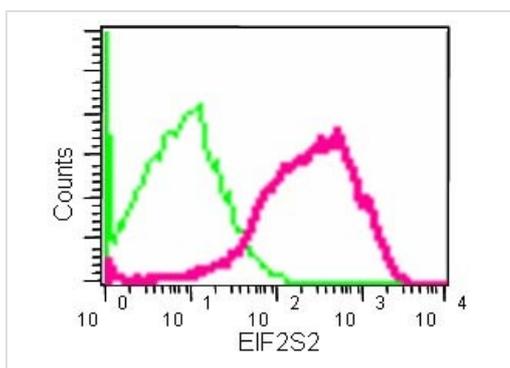
Immunocytochemistry/ Immunofluorescence - Anti-EIF2S2/EIF2B antibody [EPR15833(B)] (ab184549)

Immunofluorescent staining of 4% paraformaldehyde fixed HeLa cells labeling EIF2S2/EIF2B using ab184549 at a 1/500 dilution and Goat anti rabbit IgG (Alexa Fluor® 555) secondary at a 1/200 dilution, counterstained with Dapi.



Immunoprecipitation - Anti-EIF2S2/EIF2B antibody [EPR15833(B)] (ab184549)

Western blot analysis of EIF2S2/EIF2B in immunoprecipitation pellets from Jurkat lysate. ab184549 used at a 1/50 dilution. Secondary antibody Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG used at a 1/1500 dilution. Right lane shows PBS negative control.



Flow Cytometry - Anti-EIF2S2/EIF2B antibody [EPR15833(B)] (ab184549)

Flow cytometric analysis of 2% paraformaldehyde fixed 293 cells labeling EIF2S2/EIF2B using ab184549 at a 1/160 dilution (red) or a Rabbit monoclonal IgG control (green).

Secondary antibody: Goat anti rabbit IgG (FITC) secondary at a 1/150 dilution

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