

Anti-EIF3D antibody ab155419

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Overview

Product name	Anti-EIF3D antibody
Description	Rabbit polyclonal to EIF3D
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to a region within amino acids 241-528 of Human EIF3D (O15371).
Positive control	HeLaS3, mouse liver, PC12 and Rat2 whole cell lysates. HUH7 xenograft tissue.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab155419 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 - 1/10000. Predicted molecular weight: 64 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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 posttermination 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 D family.

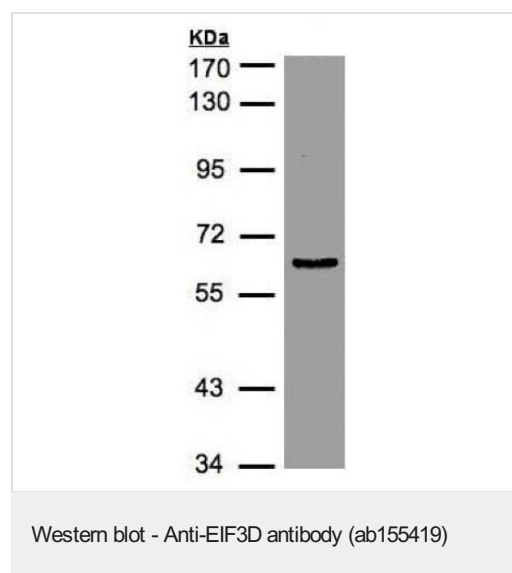
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Cytoplasm.

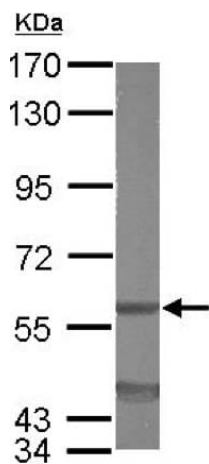
Images



Anti-eIF3D antibody (ab155419) at 1/1000 dilution + HeLa S3 whole cell lysate at 30 µg

Predicted band size: 64 kDa

7.5 % SDS-PAGE

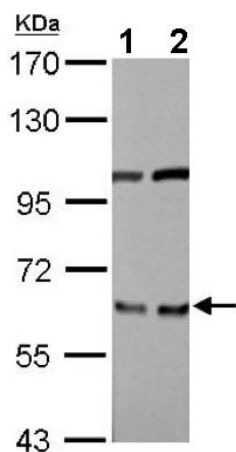


Western blot - Anti-EIF3D antibody (ab155419)

Anti-EIF3D antibody (ab155419) at 1/5000 dilution + Mouse liver whole cell lysate at 50 µg

Predicted band size: 64 kDa

7.5 % SDS-PAGE



Western blot - Anti-EIF3D antibody (ab155419)

All lanes : Anti-EIF3D antibody (ab155419) at 1/3000 dilution

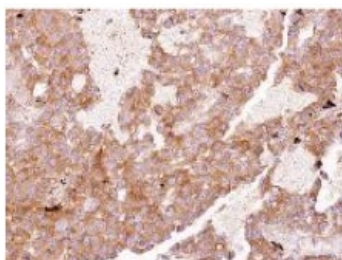
Lane 1 : PC12 whole cell lysate

Lane 2 : Rat2 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 64 kDa

7.5 % SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EIF3D antibody (ab155419)

Immunohistochemical analysis of paraffin embedded HUH7 xenograft labeling EIF3D with ab155419 antibody at 1/100.

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