

Product datasheet

Anti-U2AF65 antibody [EPR17046] - C-terminal ab197031

Recombinant RabMAb

[1 References](#) [8 Images](#)

Overview

Product name	Anti-U2AF65 antibody [EPR17046] - C-terminal
Description	Rabbit monoclonal [EPR17046] to U2AF65 - C-terminal
Host species	Rabbit
Tested applications	Suitable for: 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	WB: 293, Jurkat, HeLa, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates. Mouse brain lysates. IHC: Human endometrial adenocarcinoma tissue, Mouse liver tissue and Rat cerebral cortex tissue. ICC/IF: SW480 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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR17046
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab197031 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		1/2000. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/450.

Target

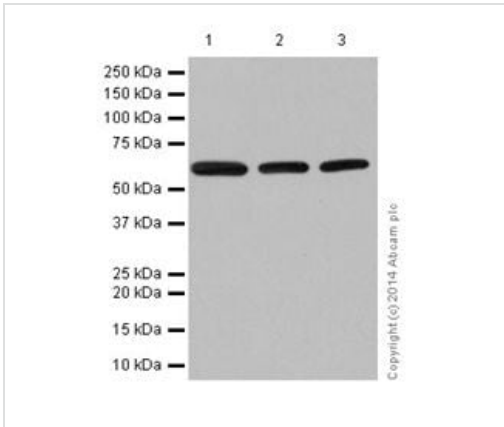
Function Necessary for the splicing of pre-mRNA. Induces cardiac troponin-T (TNNT2) pre-mRNA exon inclusion in muscle. Regulates the TNNT2 exon 5 inclusion through competition with MBNL1. Binds preferentially to a single-stranded structure within the polypyrimidine tract of TNNT2 intron 4 during spliceosome assembly. Required for the export of mRNA out of the nucleus, even if the mRNA is encoded by an intron-less gene. Represses the splicing of MAPT/Tau exon 10.

Sequence similarities Belongs to the splicing factor SR family.
Contains 3 RRM (RNA recognition motif) domains.

Post-translational modifications Lysyl-hydroxylation at Lys-15 and Lys-276 affects the mRNA splicing activity of the protein, leading to regulate some, but not all, alternative splicing events.

Cellular localization Nucleus.

Images



Western blot - Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031)

All lanes : Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031) at 1/20000 dilution

Lane 1 : 293 (Human epithelial cells from embryonic kidney) whole cell lysate

Lane 2 : Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate

Lane 3 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

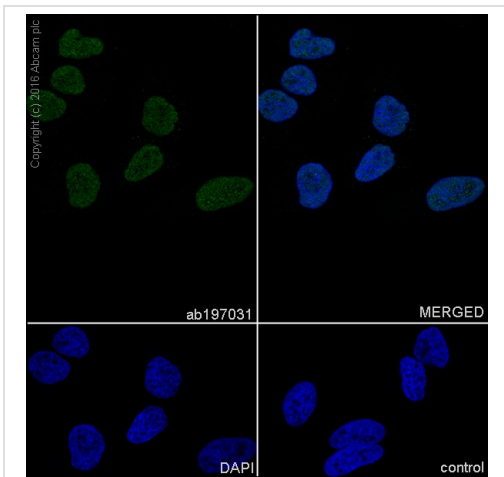
Developed using the ECL technique.

Predicted band size: 54 kDa

Observed band size: 54 kDa

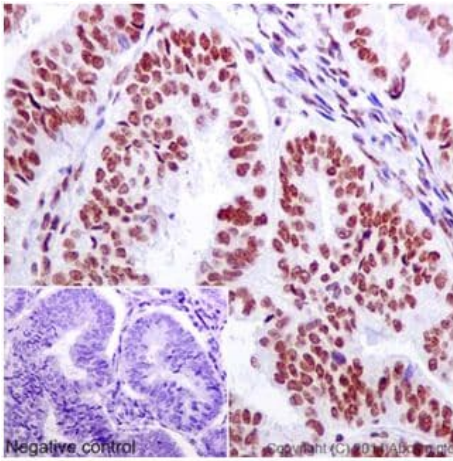
Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031)

Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) labeling U2AF65 with Purified ab197031 at 1/500 dilution (5 µg/ml). Cells were fixed with 4% PFA and permeabilized with 0.1% tritonX-100. **ab150077** Goat anti rabbit IgG(Alexa Fluor® 488) at 1/1000 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.

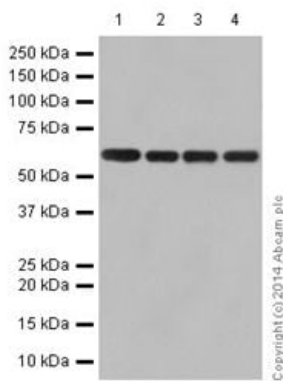


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031)

Immunohistochemical analysis of paraffin-embedded Human endometrial adenocarcinoma tissue labeling U2AF65 with ab197031 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on Human endometrial adenocarcinoma tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody.

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



Western blot - Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031)

All lanes : Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031) at 1/2000 dilution

Lane 1 : C6 (Rat glial tumor cells) whole cell lysate

Lane 2 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate

Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 4 : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

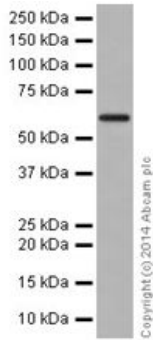
Developed using the ECL technique.

Predicted band size: 54 kDa

Observed band size: 54 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDN/TBST.



Western blot - Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031)

Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031) at 1/2000 dilution + Mouse brain tissue lysate at 10 µg

Secondary

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

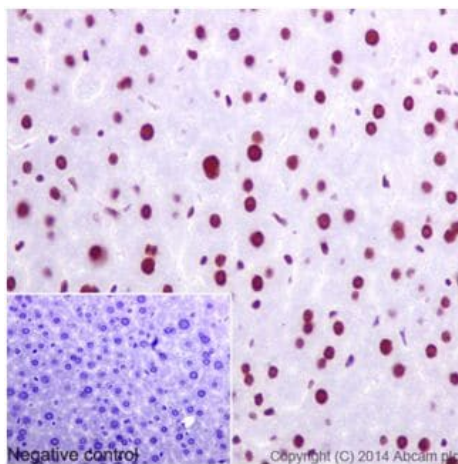
Developed using the ECL technique.

Predicted band size: 54 kDa

Observed band size: 54 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

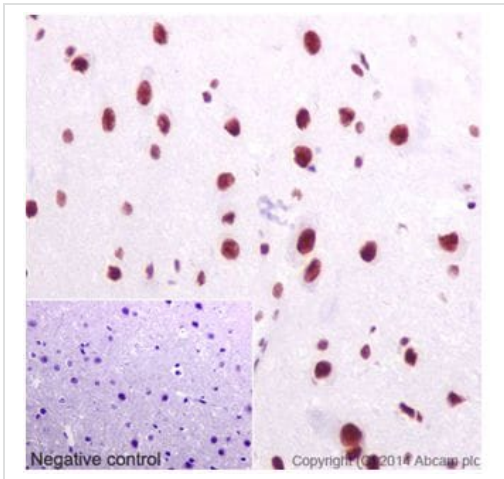


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031)

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling U2AF65 with ab197031 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on Mouse liver tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody.

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







Immunohistochemical analysis of paraffin-embedded Rat cerebral cortex tissue labeling U2AF65 with ab197031 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Nuclear staining on rat cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Negative control: Used 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-U2AF65 antibody [EPR17046] - C-terminal (ab197031)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-U2AF65 antibody [EPR17046] - C-terminal (ab197031)

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