abcam

Product datasheet

Anti-TRIB3 antibody ab137526

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Overview

Product name	Anti-TRIB3 antibody
Description	Rabbit polyclonal to TRIB3
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Cow
Immunogen	Recombinant fragment, corresponding to a region within amino acids 174-358 of Human TRIB3 (NP_066981.2).
Positive control	WB: Wild-type HCT, HepG2, HUVEC and HUVEC (treat with Sphingosine 1-phosphate) whole cell lysates. ICC/IF: HeLa cells.
General notes	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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab137526 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)	1/1000 - 1/10000. Predicted molecular weight: 40 kDa.
ICC/IF		1/100 - 1/1000.

Application notes Is unsuitable for IHC-P.

Target

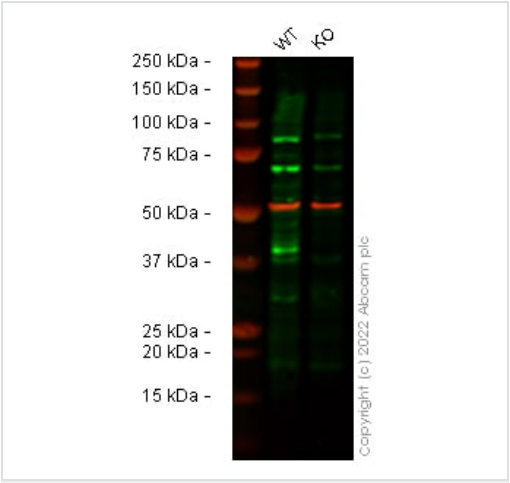
Function Disrupts insulin signaling by binding directly to Akt kinases and blocking their activation. May bind directly to and mask the 'Thr-308' phosphorylation site in AKT1. Binds to ATF4 and inhibits its transcriptional activation activity. Interacts with the NF-kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity. Interacts with MAPK kinases and regulates activation of MAP kinases. May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells. Does not display kinase activity.

Tissue specificity Highest expression in liver, pancreas, peripheral blood leukocytes and bone marrow. Also highly expressed in a number of primary lung, colon and breast tumors. Expressed in spleen, thymus, and prostate and is undetectable in other examined tissues, including testis, ovary, small intestine, colon, leukocyte, heart, brain, placenta, lung, skeletal muscle, and kidney.

Sequence similarities Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. Tribbles subfamily.
Contains 1 protein kinase domain.

Cellular localization Nucleus.

Images



Western blot - Anti-TRIB3 antibody (ab137526)

All lanes : Anti-TRIB3 antibody (ab137526) at 1/1000 dilution

Lane 1 : Wild-type HCT 116 cell lysate

Lane 2 : TRIB3 knockout HCT 116 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

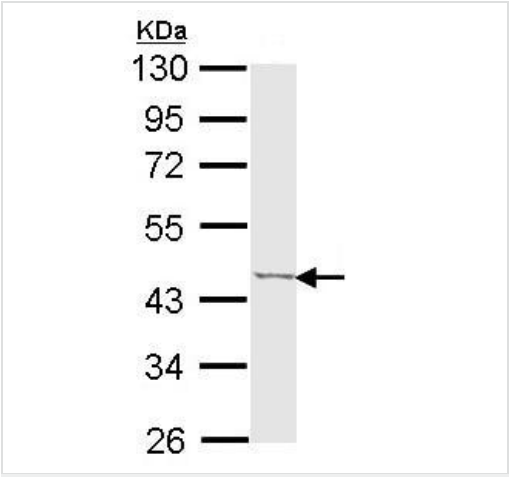
All lanes : Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 40 kDa

Observed band size: 40 kDa

False colour image of Western blot: Anti-TRIB3 antibody staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (**ab7291**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab137526 was shown to bind specifically to TRIB3. A band was observed at 40 kDa in wild-type HCT 116 cell lysates with no signal observed at this size in TRIB3 knockout cell line **ab273718** (knockout cell lysate **ab275249**). To generate this image, wild-type and TRIB3 knockout HCT 116 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.

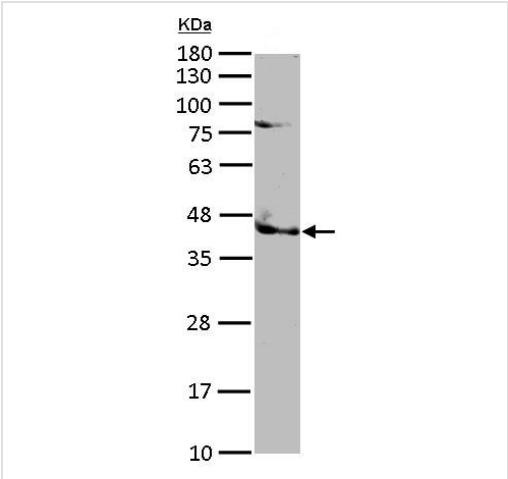


Western blot - Anti-TRIB3 antibody (ab137526)

Anti-TRIB3 antibody (ab137526) at 1/1000 dilution + HepG2 whole cell lysate at 30 µg

Predicted band size: 40 kDa

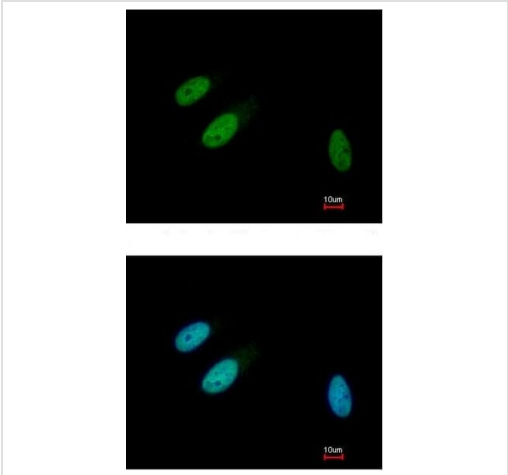
10% SDS PAGE



Western blot - Anti-TRIB3 antibody (ab137526)

Anti-TRIB3 antibody (ab137526) at 1/5000 dilution + HUVEC whole cell lysate at 15 µg

Predicted band size: 40 kDa



Immunocytochemistry/ Immunofluorescence - Anti-TRIB3 antibody (ab137526)

Immunofluorescence analysis of paraformaldehyde fixed HeLa cells labelling TRIB3 with ab137526 at 1/200. The lower panel shows costaining with Hoechst 33342.

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