

Product datasheet

Anti-RTN3/HAP antibody ab68328

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Overview

Product name	Anti-RTN3/HAP antibody
Description	Mouse polyclonal to RTN3/HAP
Host species	Mouse
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human RTN3/HAP aa 1-236. Database link: NP_006045.1
Positive control	WB: Wild-type HEK-293T, HeLa, U-87 MG, and RTN3/HAP transfected 293T cell lysates.
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	pH: 7.40 Constituent: 100% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab68328 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		1/500 - 1/1000. Detects a band of approximately 22 kDa (predicted molecular weight: 26 kDa).

Target

Function

May be involved in membrane trafficking in the early secretory pathway. Inhibits BACE1 activity and amyloid precursor protein processing. May induce caspase-8 cascade and apoptosis. May favor BCL2 translocation to the mitochondria upon endoplasmic reticulum stress. In case of enteroviruses infection, RTN3 may be involved in the viral replication or pathogenesis.

Tissue specificity

Isoform 3 is widely expressed, with highest levels in brain, where it is enriched in neuronal cell bodies from gray matter (at protein level). Three times more abundant in macula than in peripheral retina. Isoform 1 is expressed at high levels in brain and at low levels in skeletal muscle. Isoform 2 is only found in melanoma.

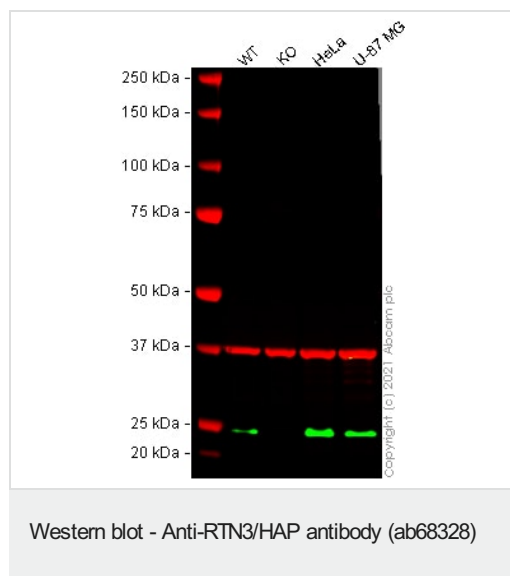
Sequence similarities

Contains 1 reticulon domain.

Cellular localization

Endoplasmic reticulum membrane. Golgi apparatus membrane.

Images



All lanes : Anti-RTN3/HAP antibody (ab68328) at 1/500 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : RTN3 knockout HEK-293T cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : U-87 MG cell lysate

Lysates/proteins at 20 µg per lane.

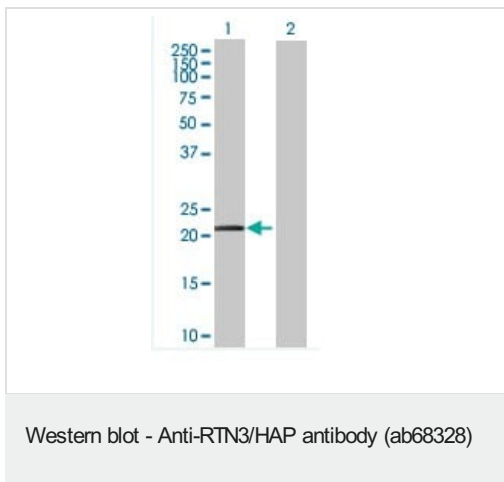
Performed under reducing conditions.

Predicted band size: 26 kDa

Observed band size: 24 kDa

False colour image of Western blot: Anti-RTN3/HAP antibody staining at 1/500 dilution, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] (**ab181602**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab68328 was shown to bind specifically to RTN3/HAP. A band was observed at

24 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in RTN3 knockout cell line [ab266517](#) (knockout cell lysate [ab258647](#)). To generate this image, wild-type and RTN3 knockout HEK-293T 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-Mouse IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216777](#)) at 1/20000 dilution.



All lanes : Anti-RTN3/HAP antibody (ab68328) at 1/500 dilution

Lane 1 : RTN3/HAP transfected 293T cell lysate

Lane 2 : non transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

Secondary

All lanes : Goat Anti-Mouse IgG (H&L)-HRP Conjugate at 1/2500 dilution

Predicted band size: 26 kDa

Observed band size: 22 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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