

## Product datasheet

# Anti-TWEAK antibody ab37170

10 References 7 Images

### Overview

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<b>Product name</b>	Anti-TWEAK antibody
<b>Description</b>	Rabbit polyclonal to TWEAK
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant full length protein corresponding to Human TWEAK. Database link: <a href="#">O43508</a>

### General notes

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2

	Preservative: 0.02% Sodium azide
	Constituent: PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab37170** in the following tested applications.

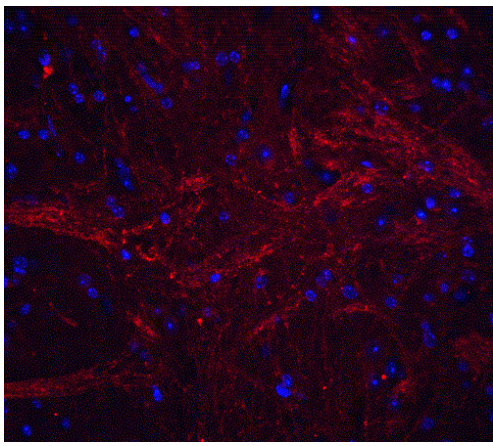
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 10 µg/ml.
WB		Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 27,36 kDa. TWEAK may migrate at aberrant positions in SDS-PAGE.

## Target

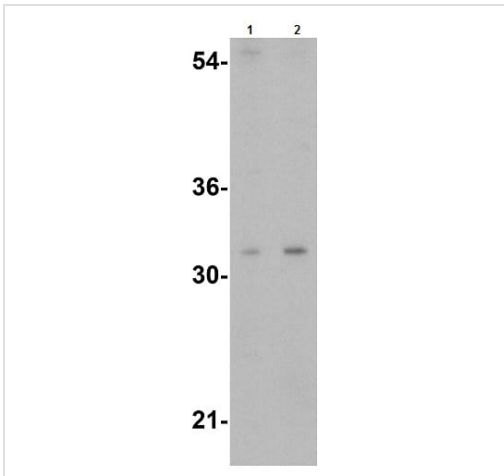
<b>Function</b>	Binds to FN14 and possibly also to TNFRSF12/APO3. Weak inducer of apoptosis in some cell types. Mediates NF-kappa-B activation. Promotes angiogenesis and the proliferation of endothelial cells. Also involved in induction of inflammatory cytokines.
<b>Tissue specificity</b>	Highly expressed in adult heart, pancreas, skeletal muscle, brain, colon, small intestine, lung, ovary, prostate, spleen, lymph node, appendix and peripheral blood lymphocytes. Low expression in kidney, testis, liver, placenta, thymus and bone marrow. Also detected in fetal kidney, liver, lung and brain.
<b>Sequence similarities</b>	Belongs to the tumor necrosis factor family.
<b>Post-translational modifications</b>	The soluble form derives from the membrane form by proteolytic processing.
<b>Cellular localization</b>	Secreted and Cell membrane.

## Images



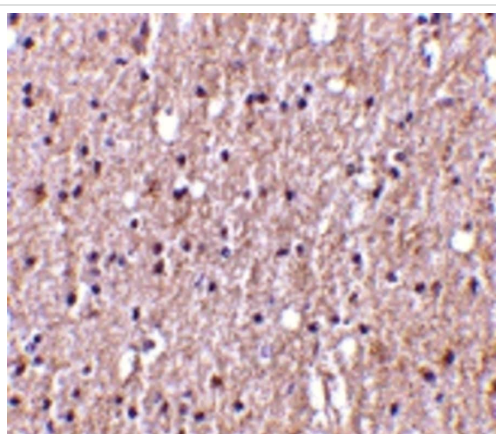
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TWEAK antibody (ab37170)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) of mouse brain tissue staining TWEAK with ab37170 at 20µg/ml



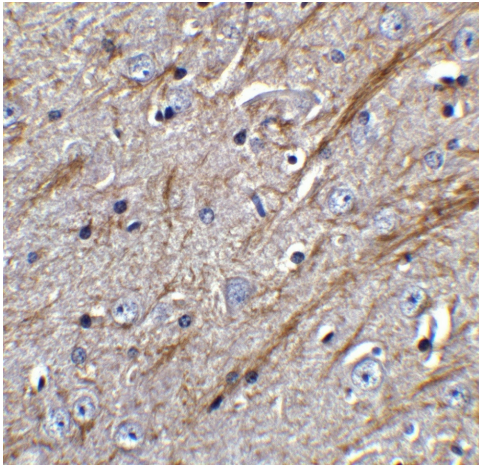
Western blot - Anti-TWEAK antibody (ab37170)

Western Blot of HeLa cell lysate labeling TWEAK with Anti-TWEAK antibody (ab37170) at (1) 1 and (2) 2µg/ml.



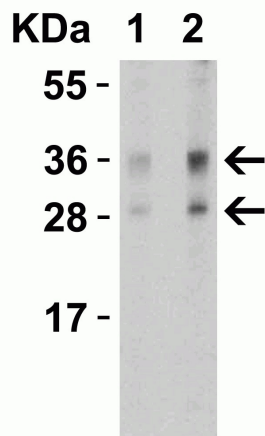
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TWEAK antibody (ab37170)

Immunohistochemistry analysis Formalin/PFA-fixed paraffin-embedded human brain tissue sections labeling TWEAK with ab37170 at 10 µg/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TWEAK antibody (ab37170)

Immunohistochemistry analysis Formalin/PFA-fixed paraffin-embedded mouse brain tissue sections labeling TWEAK with ab37170 at 5 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Western blot - Anti-TWEAK antibody (ab37170)

**Lane 1 :** Anti-TWEAK antibody (ab37170) at 1 µg/ml

**Lane 2 :** Anti-TWEAK antibody (ab37170) at 2 µg/ml

**All lanes :** Mouse pancreas tissue lysate

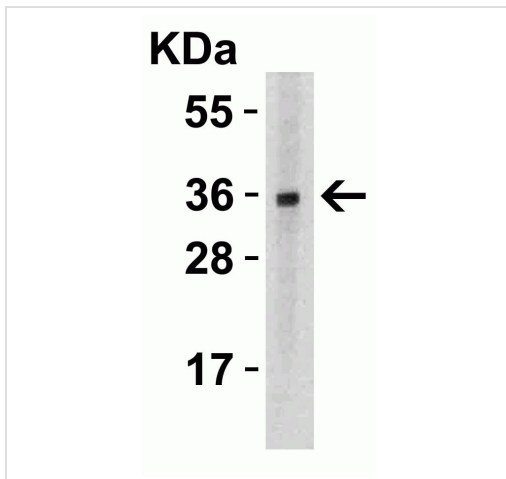
Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes :** Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

**Predicted band size:** 27,36 kDa

Primary incubation: 1h incubation at RT in 5% NFDm/TBST



Western blot - Anti-TWEAK antibody (ab37170)

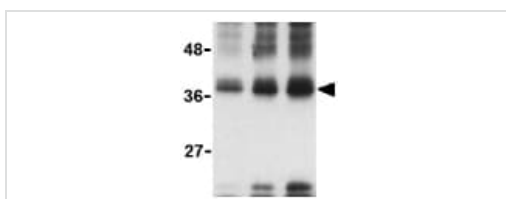
Anti-TWEAK antibody (ab37170) at 2 µg/ml + Mouse Liver Tissue Lysates at 15 µg

**Secondary**

Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

**Predicted band size:** 27,36 kDa

Primary incubation time: 1h incubation at RT in 5% NFD/MTBST.



Western blot - Anti-TWEAK antibody (ab37170)

**All lanes :** Anti-TWEAK antibody (ab37170) at 1 µg/ml

**Lane 1 :** Recombinant human TWEAK at 0.005 µg

**Lane 2 :** Recombinant human TWEAK at 0.025 µg

**Lane 3 :** Recombinant human TWEAK at 0.05 µg

**Predicted band size:** 27,36 kDa

**Observed band size:** 37 kDa

[why is the actual band size different from the predicted?](#)

TWEAK migrates at aberrant positions in SDS-PAGE; hence the observed band is different from the predicted molecular weight of 27 kDa.

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

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