

Datasheet for 600-401-FS9**TWEAK Antibody****Overview**

Description:	Anti-TWEAK (RABBIT) Antibody - 600-401-FS9
Item No.:	600-401-FS9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	TNF-related weak inducer of apoptosis (TWEAK) is a member of the tumor necrosis factor superfamily (TNFSF) of structurally related cytokines. Like most other members of this family, TWEAK is a cell surface-associated type II transmembrane protein although a smaller, biologically active form can also be generated by cleavage near the cell membrane. TWEAK has multiple biological activities, including stimulation of cell growth and angiogenesis, induction of inflammatory cytokines, in addition to stimulation of apoptosis. The TWEAK signal transduction pathway has not been well established but it appears to signal via TweakR/Fn14 in a manner similar to that described for other TNFSF members that bind receptors lacking death domains.
Synonyms:	TWEAK Antibody, APO3L, DR3LG, TWEAK, APO3L, UNQ181/PRO207, Tumor necrosis factor ligand superfamily member 12, APO3 ligand
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TNFSF12
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-TWEAK antibody was prepared from whole rabbit serum produced by repeated immunizations with recombinant human TWEAK.

Purity/Specificity:	Anti-TWEAK Antibody was Protein A purified from monospecific antiserum by immunoaffinity purification. Cross reactivity with TWEAK from other sources has not been determined.
Relevant Links:	• UniProtKB - O43508 • GeneID - 407977 • NCBI - NP_003800.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TWEAK Antibody has been tested for use in ELISA, Western Blotting, Immunofluorescence, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 27 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	1 µg/mL

Formulation

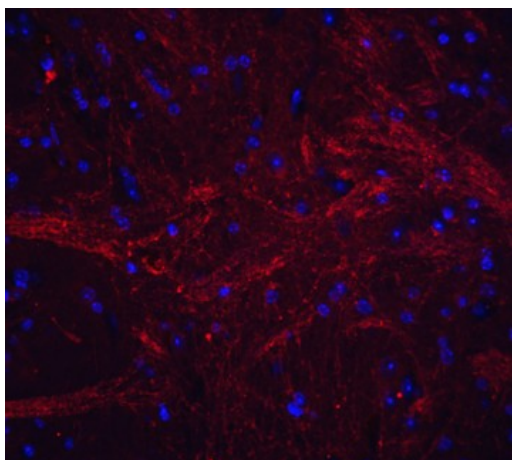
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

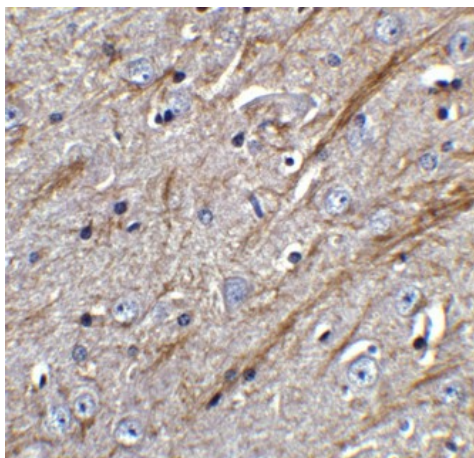
Expiration:

Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

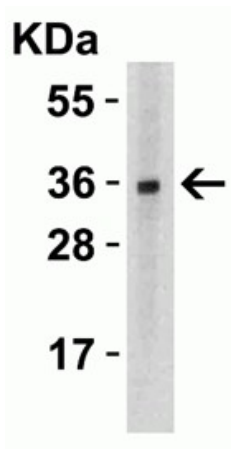
Immunofluorescence Validation of TWEAK.

Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse brain tissue labeling TWEAK at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

**Immunohistochemistry**

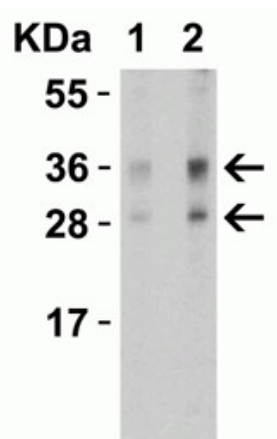
Immunohistochemistry Validation of TWEAK.

Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-TWEAK antibody 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.



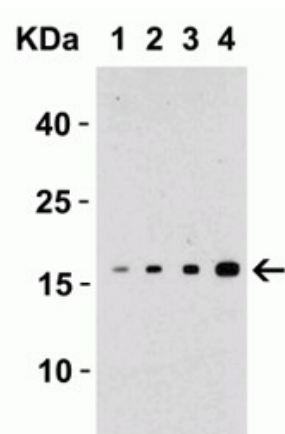
Western Blot

Western Blot Validation. Loading: 15 μ g of Mouse Liver Tissue Lysates per lane. Antibodies: TWEAK (2 μ g/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



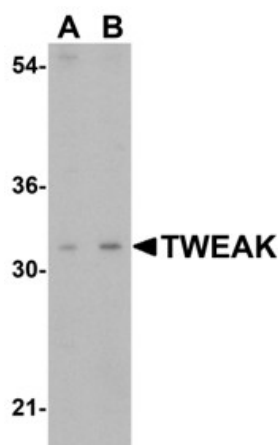
Western Blot

Western Blot Validation. Loading: 15 μ g of Mouse Pancreas Tissue Lysates per lane. Antibodies: TWEAK (Lane 1: 1 μ g/mL and Lane 2: 2 μ g/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot

Western Blot Validation with Recombinant Protein. Loading: 30 ng of human TWEAK recombinant protein per lane. Antibodies: TWEAK (Lane 1: 0.5 μ g/mL, Lane 2: 1 μ g/mL, Lane 3: 2 μ g/mL and Lane 4: 4 μ g/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed at around 18kD.

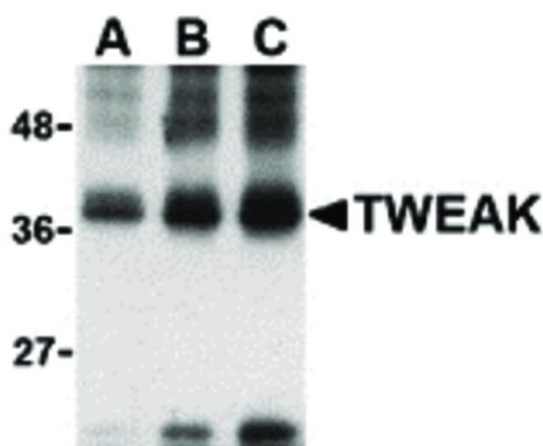
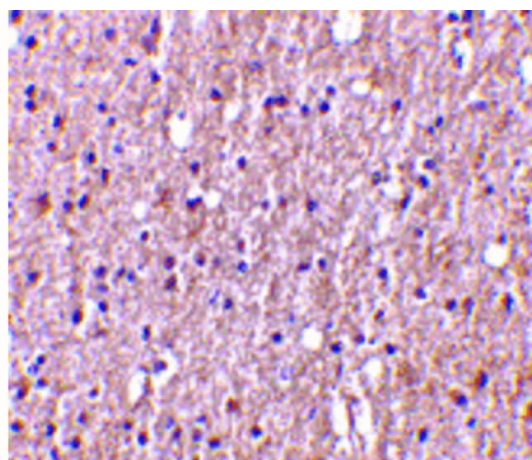


Western Blot

Western Blot Validation. Loading: 15 µg of HeLa lysates per lane. Antibodies: TWEAK (A: 1 µg/mL and B: 2 µg/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

Immunohistochemistry

Immunohistochemistry of TWEAK antibody. Tissue: human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TWEAK antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TWEAK is cytoplasmic. Staining: TWEAK is stained with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of TWEAK antibody. Lane 1: 5 ng of recombinant TWEAK. Lane 2: 25 ng of recombinant TWEAK. Lane 3: 50 ng of recombinant TWEAK. Load: 35 µg per lane. Primary antibody: TWEAK antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 143 kDa, 40 kDa for TWEAK. Other band(s): TWEAK splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.