

Anti-TWEAK TNFSF12 Antibody

Catalog Number: A02009-2

About TNFSF12

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.

Overview

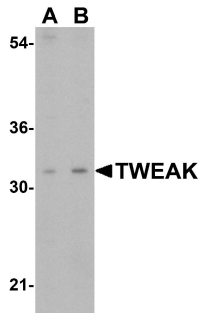
Product Name	Anti-TWEAK TNFSF12 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-TWEAK TNFSF12 Antibody (Catalog # A02009-2). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	TWEAK Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TWEAK antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O43508

Technical Details

Immunogen	Anti-TWEAK antibody was raised against recombinant human TWEAK protein.
Predicted Reactive Species	Mouse
Cross Reactivity	SRPK1 antibody is human, mouse and rat reactive. Multiple isoforms of SRPK1 are known to exist; this antibody will detect all except isoforms b and e. SRPK1 antibody is predicted to not cross-react with SRPK2.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

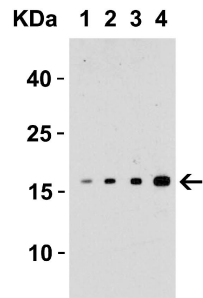
Purification	TWEAK Antibody is Protein A-purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 0.5-4 ug/mL; IHC: 5-10 ug/mL; IF: 20 ug/mL. Antibody validated: Western Blot in human and mouse samples; Immunohistochemistry in human and mouse samples; Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

Anti-TWEAK TNFSF12 Antibody (A02009-2) Images



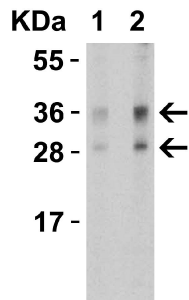
Western Blot Validation in HeLa Cell Lysate

Loading: 15 ug of lysates per lane. Antibodies: TWEAK A02009-2 (A: 1 ug/mL and B: 2 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



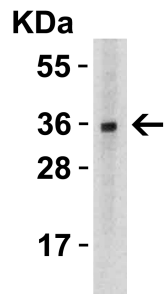
Western Blot Validation with Recombinant Protein

Loading: 30 ng of human TWEAK recombinant protein per lane. Antibodies: TWEAK A02009-2 (Lane 1: 0.5 ug/mL, Lane 2: 1 ug/mL, Lane 3: 2 ug/mL and Lane 4: 4 ug/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 Validation in Mouse Pancreas Tissue Lysates

Loading: 15 ug of lysates per lane. Antibodies: TWEAK A02009-2 (Lane 1: 1 ug/mL and Lane 2: 2 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

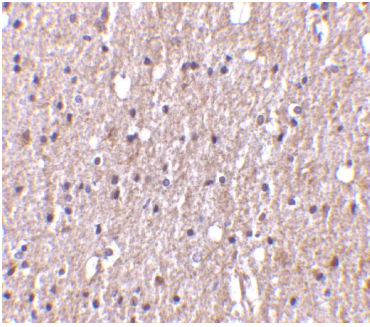


Western Blot Validation in Mouse Liver Tissue Lysates

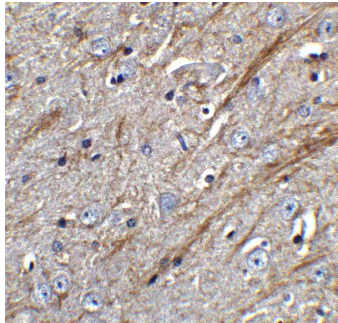
Loading: 15 ug of lysates per lane. Antibodies: TWEAK A02009-2 (2 ug/mL)

Immunohistochemistry Validation of TWEAK in Human Brain Tissue

Immunohistochemical analysis of paraffin-embedded human brain tissue using anti-TWEAK antibody (A02009-2) at 10 ug/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

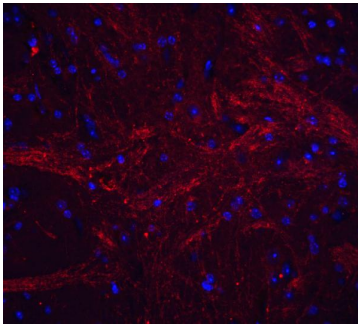


incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry Validation of TWEAK in Mouse Brain Tissue

Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-TWEAK antibody (A02009-2) at 5 ug/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.



Immunofluorescence Validation of TWEAK in Mouse Brain Tissue

Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse brain tissue labeling TWEAK with A02009-2 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

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