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TWEAK Antibody

Catalog # ASC10414

Product Information

Application	WB, E, IHC-P
Primary Accession	O43508
Other Accession	NP_003800, 4507597
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	27216
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TWEAK antibody can be used for the detection of TWEAK by Western blot at 1 g/mL. Antibody can also be used for immunohistochemistry starting at 10 g/mL.

Additional Information

Gene ID	8742
Other Names	TWEAK Antibody: APO3L, DR3LG, TWEAK, APO3L, UNQ181/PRO207, Tumor necrosis factor ligand superfamily member 12, APO3 ligand, tumor necrosis factor (ligand) superfamily, member 12
Target/Specificity	TNFSF12;
Reconstitution & Storage	TWEAK antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	TWEAK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TNFSF12
Synonyms	APO3L, DR3LG
Function	Binds to FN14 and possibly also to TNRFSF12/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. Promotes IL8 secretion.
Cellular Location	Cell membrane; Single-pass type II membrane protein [Isoform TWE-PRIL]:

	Cell membrane; Single-pass membrane protein
Tissue Location	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

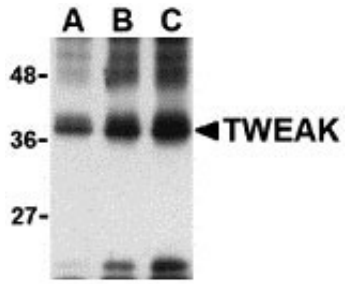
Background

TWEAK Antibody: 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.

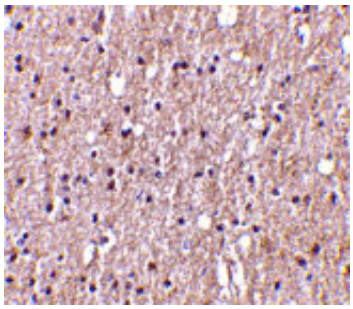
References

Wiley SR and Winkles JA. TWEAK, a member of the TNF superfamily, is a multifunctional cytokine that binds the TweakR/Fn14 receptor. Cyto. And Growth Factor Rev. 2003; 14:241-9.
Chicheportiche Y, Bourdon PR, Xu H, et al. TWEAK, a new secreted ligand in the tumor necrosis factor family that weakly induces apoptosis. J. Biol. Chem. 1997; 272:32401-10.
Lynch CN, Wang YC, Lund JK, et al. TWEAK induces angiogenesis and proliferation of endothelial cells. J. Biol. Chem. 1999; 274:8455-9.
Chicheportiche Y, Chicheportiche R, Sizing I, et al. Proinflammatory activity of TWEAK on human dermal fibroblasts and synoviocytes: blocking and enhancing effects of anti-TWEAK monoclonal antibodies. Arthr. Res. 2002; 4:126-33. 5.

Images



Western blot analysis of (A) 5 ng, (B) 25 ng and (C) 50 ng of recombinant TWEAK with TWEAK antibody at 1 µg/mL.



Immunohistochemistry of TWEAK in human brain tissue with TWEAK antibody at 10 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.