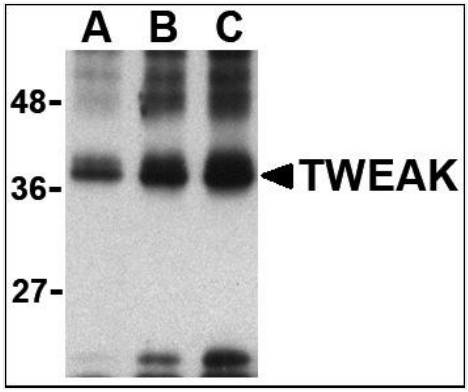
TNFSF12 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TWEAK (TNFSF12), Polyclonal Antibody
Full Product Name	TWEAK (TNF-related Weak Inducer of Apoptosis, APO3 Ligand, APO3/DR3 Ligand, APO3L, CD255, DR3LG, FN14, HCG1991317, MGC129581, MGC20669, Tumor Necrosis Factor Ligand Superfamily Member 12, TNFSF12, UNQ181/PRO207)
Product Gene Name	anti-TNFSF12 antibody
Product Synonym Names	Anti -TWEAK (TNF-related Weak Inducer of Apoptosis, APO3 Ligand, APO3/DR3 Ligand, APO3L, CD255, DR3LG, FN14, HCG1991317, MGC129581, MGC20669, Tumor Necrosis Factor Ligand Superfamily Member 12, TNFSF12, UNQ181/PRO207)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human TWEAK. Species Crossreactivity: mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile glycerol (40-50%), aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	27,216 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (7452375..7461207). Location: 17p13
OMIM	602695
3D Structure	ModBase 3D Structure for O43508
Immunogen	Synthetic peptide, TWEAK antibody was raised against recombinant human TWEAK (Genbank accession No. NP_003800).
Positive Control	HT-29 cell lysate
Product Categories/Family for anti-TNFSF12 antibody	Antibodies; Abs to Growth Factors; Cytokines
Applications Tested/Suitable for anti-TNFSF12 antibody	Western Blot (WB)
Application Notes for anti-TNFSF12 antibody	Dilution: Western Blot: 0.5-1ug'ml

Related Product Information for anti-TNFSF12 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 (1,2). TWEAK has multiple biological activities, including stimulation of cell growth and angiogenesis (3), induction of inflammatory cytokines (4), in addition to stimulation of apoptosis (5). 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 (1). Despite its predicted molecular weight of 27kDa, TWEAK may migrate at aberrant positions in SDS-PAGE. Applications: Suitable for use in Western Blot. Other applications not tested.
Other Notes	Small volumes of anti-TNFSF12 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TNFSF12 purchase	MBS611884 is an antibody targeting TNFSF12. Also known as TWEAK (TNF-related Weak Inducer of Apoptosis, APO3 Ligand, APO3/DR3 Ligand, APO3L, CD255, DR3LG, FN14, HCG1991317, MGC129581, MGC20669, Tumor Necrosis Factor Ligand Superfamily Member 12, TNFSF12, UNQ181/PRO207). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-TNFSF12 antibody
Western blot analysis of (A) 5ng, (B) 25ng and (C) 50ng of recombinant TWEAK with MBS611884 at 1ug/ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNFSF12. It may not necessarily be applicable to this product.

NCBI GI #	4507597
NCBI GeneID	8742
NCBI Accession #	NP_003800.1
UniProt Primary Accession #	O43508
UniProt Secondary Accession #	Q8IZK7; Q8WUZ7
UniProt Related Accession #	O43508
GenBank Nucleotide #	NM_003809.2
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 12 proprotein
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 12
NCBI Official Symbol	TNFSF12
NCBI Official Synonym Symbols	APO3L; DR3LG; TWEAK
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 12

UniProt Synonym Protein Names	APO3 ligand; TNF-related weak inducer of apoptosis
Protein Family	Tumor necrosis factor ligand superfamily
UniProt Gene Name	TNFSF12
UniProt Synonym Gene Names	APO3L; DR3LG; TWEAK
UniProt Entry Name	TNF12_HUMAN
NCBI Protein Information	tumor necrosis factor ligand superfamily member 12; APO3 ligand; APO3/DR3 ligand; TNF-related WEAK inducer of apoptosis
NCBI Summary for TNFSF12	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein is a ligand for the FN14/TWEAKR receptor. This cytokine has overlapping signaling functions with TNF, but displays a much wider tissue distribution. This cytokine, which exists in both membrane-bound and secreted forms, can induce apoptosis via multiple pathways of cell death in a cell type-specific manner. This cytokine is also found to promote proliferation and migration of endothelial cells, and thus acts as a regulator of angiogenesis. Alternative splicing results in multiple transcript variants. Some transcripts skip the last exon of this gene and continue into the second exon of the neighboring TNFSF13 gene; such read-through transcripts are contained in GeneID 407977, TNFSF12-TNFSF13. [provided by RefSeq, Oct 2010]
UniProt Comments for TNFSF12	TNFSF12: 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. Homotrimer (Potential). Interacts with the angiogenic factor AGGF1/VG5Q. 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. Belongs to the tumor necrosis factor family. Protein type: Membrane protein, integral; Cytokine; Motility/polarity/chemotaxis; Apoptosis Chromosomal Location of Human Ortholog: 17p13 Cellular Component: extracellular space; perinuclear region of cytoplasm; integral to plasma membrane Molecular Function: protein binding; cytokine activity; tumor necrosis factor receptor binding; receptor binding Biological Process: positive regulation of angiogenesis; apoptosis; positive regulation of protein catabolic process; endothelial cell migration; immune response; positive regulation of endothelial cell proliferation; angiogenesis; cell differentiation; signal transduction
Research Articles on TNFSF12	**1.** Our data reveal a protective role of TWEAK in glucose homeostasis and identify PP2A as a new driver in the modulation of TNF-alpha signaling by sTWEAK.
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