

**TWEAK Antibody**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	30	Rabbit	#O43508	8742

**Product Usage Information**

**Application**  
Western Blotting

**Dilution**  
1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

TWEAK Antibody detects recombinant and transfected levels of TWEAK protein.

**Species predicted to react based on 100% sequence homology**

Mouse, Monkey

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His110 of human Tweak protein. Antibodies were purified by protein A and peptide affinity chromatography.

**Background**

TWEAK (TNFSF12/Apo-3L) is a member of the TNF superfamily of cytokines that are typically involved in immune regulation, inflammation, and apoptosis (1,2). TWEAK mRNA is expressed in a variety of tissues and cell lines, with higher levels observed in the heart, brain, skeletal muscle and within the immune system (1). Like other family members TWEAK is a type II transmembrane protein that can also be proteolytically processed to form a soluble cytokine. Soluble TWEAK is a weak inducer of apoptosis in some cell lines (1). The receptor for TWEAK, known as TWEAKR or fibroblast growth factor inducible 14 (Fn14), is a relatively small member of the TNF receptor family (3). TWEAK signaling has been associated with apoptosis, proliferation, migration, angiogenesis, and inflammation (4). Recent studies have suggested some therapeutic potential of TWEAK and its receptor signaling in regards to autoimmunity, cancer, and vascular injury (5-8).

**Background References**

1. Chicheportiche, Y. et al. (1997) *J Biol Chem* 272, 32401-10.
2. Marsters, S.A. et al. (1998) *Curr Biol* 8, 525-8.
3. Wiley, S.R. et al. (2001) *Immunity* 15, 837-46.
4. Wiley, S.R. and Winkles, J.A. (2003) *Cytokine Growth Factor Rev* 14, 241-9.
5. Desplat-Jégo, S. et al. (2005) *Clin Immunol* 117, 15-23.
6. Mueller, A.M. et al. (2005) *J Neuroimmunol* 159, 55-65.
7. Winkles, J.A. et al. (2006) *Cancer Lett* 235, 11-7.
8. Ortiz, A. et al. (2009) *Cytokine Growth Factor Rev* 20, 251-8.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human

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