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## TWEAK Antibody

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

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

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