

#4403 Store at -20C

## TWEAK Receptor/Fn14 Antibody



**Cell Signaling**  
TECHNOLOGY®

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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|---------|-------------|-----------------|
| WB, IP        | H M R B     | Endogenous   | 14-17     | Rabbit  | #Q9NP84     | 51330           |

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### 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 Receptor/Fn14 Antibody detects endogenous levels of total TWEAK Receptor/Fn14 protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of the TWEAK Receptor/Fn14. Antibodies were purified by protein A and peptide affinity chromatography.

### Background

The receptor for TWEAK, fibroblast growth factor-inducible 14 (Fn14), is a member of the TNF superfamily of receptors thought to be involved in cell growth, adhesion and migration (1). Its expression is regulated by a number of different growth factors (1,2). Elevated expression is also seen in some cancers including hepatocellular carcinomas (3), glioblastomas (4), and pancreatic cancer (5). The receptor contains a binding site for members of the TNFR-associated factor (TRAF) family that promotes the activation of NF-κB (1,6). Recent studies have suggested some therapeutic potential of TWEAK and its receptor signaling in regards to autoimmunity and cancer treatment (7-9).

### Background References

1. Wiley, S.R. et al. (2001) *Immunity* 15, 837-46.
2. Nakayama, M. et al. (2003) *J. Immunol.* 170, 341-8.
3. Feng, S.L. et al. (2000) *Am. J. Pathol.* 156, 1253-61.
4. Tran, N.L. et al. (2003) *Am. J. Pathol.* 162, 1313-21.
5. Han, H. et al. (2002) *Cancer Res.* 62, 2890-6.
6. Brown, S.A. et al. (2003) *Biochem J.* 371, 395-403.
7. Desplat-Jégo, S. et al. (2005) *Clin. Immunol.* 117, 15-23.
8. Mueller, A.M. et al. (2005) *J. Neuroimmunol.* 159, 55-65.
9. Winkles, J.A. et al. (2006) *Cancer Lett* 235, 11-7.

### 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

**WB:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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