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TWEAK Receptor/Fn14 (E6N2I) Rabbit mAb

Cell Signaling TECHNOLOGY®

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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:
WB, IP	H M R	Endogenous	14-17	Rabbit IgG	#Q9NP84	51330

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. *Do not aliquot the antibody.*

Specificity / Sensitivity

TWEAK Receptor/Fn14 (E6N2I) Rabbit mAb recognizes endogenous levels of total TWEAK Receptor/Fn14 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly118 within the cytoplasmic region of human TWEAK Receptor/Fn14 protein.

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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