

#4724 Store at -20°C

## TRAF2 (C192) Antibody



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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, W-S, IP	H M Mk	Endogenous	53	Rabbit	#Q12933	7186

### Product Usage Information

#### Application

Western Blotting  
Simple Western™  
Immunoprecipitation

#### Dilution

1:1000  
1:10 - 1:50  
1:100

### 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

TRAF2 Antibody detects endogenous levels of total human TRAF2 protein. No cross-reactivity was detected with other family members at physiological conditions.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding cysteine 192 of human TRAF2. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

TRAFs (TNF receptor-associated factors) are a family of multifunctional adaptor proteins that bind to surface receptors and recruit additional proteins to form multiprotein signaling complexes capable of promoting cellular responses (1-3). Members of the TRAF family share a common carboxy-terminal "TRAF domain", which mediates interactions with associated proteins; many also contain amino-terminal Zinc/RING finger motifs. The first TRAFs identified, TRAF1 and TRAF2, were found by virtue of their interactions with the cytoplasmic domain of TNF-receptor 2 (TNFR2) (4). The six known TRAFs (TRAF1-6) act as adaptor proteins for a wide range of cell surface receptors and participate in the regulation of cell survival, proliferation, differentiation, and stress responses. While TRAF2 was originally described through its interaction with TNFR2, it has since been shown to interact with other surface receptors including CD27, CD30, CD40, 4-1BB, Ox40, HVEM/ATAR and LMP-1 (1-3). TRAF2 also associates with a large number of intracellular proteins, including TRADD, FADD, I-TRAF/TANK, TRIP, A20, c-IAP1 and 2, Casper, RIP and NIK, which help to regulate cell survival. Dominant negative and knockout studies have shown that TRAF2 plays an important role in TNF-mediated activation of NF-κB and the MAPK/JNK kinase pathway (5-7).

### Background References

1. Arch, R.H. et al. (1998) *Genes Dev* 12, 2821-30.
2. Chung, J.Y. et al. (2002) *J Cell Sci* 115, 679-88.
3. Bradley, J.R. and Pober, J.S. (2001) *Oncogene* 20, 6482-91.
4. Rothe, M. et al. (1994) *Cell* 78, 681-92.
5. Yeh, W.C. et al. (1997) *Immunity* 7, 715-25.
6. Reinhard, C. et al. (1997) *EMBO J* 16, 1080-92.
7. Rothe, M. et al. (1995) *Science* 269, 1424-7.

### 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 **W-S:** Simple Western™ **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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