

Phospho-TRAF2 (Ser11) (E2B6L) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M	Endogenous	53	Rabbit IgG	#Q12933	7186

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

Phospho-TRAF2 (Ser11) (E2B6L) Rabbit mAb recognizes endogenous levels of TRAF2 protein only when phosphorylated at Ser11.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser11 of human TRAF2 protein.

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. TRAF2 is phosphorylated at Ser11 by IKK-ε, promoting K63-linked ubiquitination, NF-κB activation, and cellular transformation (5).

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. Shen, R.R. et al. (2012) *Mol Cell Biol* 32, 4756-68.

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 **M:** Mouse

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