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TRAF5 (D3E2R) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	64	Rabbit IgG	#O00463	7188

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	TRAF5 (D3E2R) Rabbit mAb recognizes endogenous levels of total TRAF5 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His383 of human TRAF5 protein.	
Background	<p>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.</p> <p>TRAF5 regulates signaling through binding to the cytoplasmic domains of TNFR family members including CD40, CD27, CD30, OX40, and lymphotoxin-β receptor (5-10). Overexpression of TRAF5 induces NF-κB activation. Cytoplasmic aggregates of TRAF5, as well as TRAF2, were reported in Hodgkin-Reed-Sternberg cells, resulting in constitutive NF-κB activation (11).</p> <p>Studies of TRAF5 deficient mice suggest that it plays an important role in limiting Th2 immune responses that triggers T-cell mediated inflammatory diseases and asthma (12). Further studies indicate that TRAF5 binds to the IL-6 receptor gp130 and negatively controls Th17 differentiation (13). In B-cells, TRAF5 negatively regulates toll-like receptor (TLR) mediated cytokine and antibody production (14).</p>	
Background References	<ol style="list-style-type: none"> 1. Arch, R.H. et al. (1998) <i>Genes Dev</i> 12, 2821-30. 2. Chung, J.Y. et al. (2002) <i>J Cell Sci</i> 115, 679-88. 3. Bradley, J.R. and Pober, J.S. (2001) <i>Oncogene</i> 20, 6482-91. 4. Rothe, M. et al. (1994) <i>Cell</i> 78, 681-92. 5. Nakano, H. et al. (1996) <i>J Biol Chem</i> 271, 14661-4. 6. Ishida, T.K. et al. (1996) <i>Proc Natl Acad Sci U S A</i> 93, 9437-42. 7. Aizawa, S. et al. (1997) <i>J Biol Chem</i> 272, 2042-5. 8. Mizushima, S. et al. (1998) <i>Gene</i> 207, 135-40. 9. Kawamata, S. et al. (1998) <i>J Biol Chem</i> 273, 5808-14. 10. Nakano, H. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 9803-8. 11. Horie, R. et al. (2002) <i>Am J Pathol</i> 160, 1647-54. 12. So, T. et al. (2004) <i>J Immunol</i> 172, 4292-7. 13. Nagashima, H. et al. (2014) <i>Nat Immunol</i> 15, 449-56. 14. Buchta, C.M. and Bishop, G.A. (2014) <i>J Immunol</i> 192, 145-50. 	

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

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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