

TRAF5 (D3E2R) Rabbit mAb



Orders: 877-616-CELL (2355) orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 64	Source/Isotype: Rabbit IgG	UniProt ID: #O00463	Entrez-Gene Id: 7188
Product Usage Information	2	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		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 aminoterminal 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 (TNFRII) (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. TRAF5 regulates signaling through binding to the cytoplasmic domains of TNFR famly 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). 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 differentation (13). In B-cells, TRAF5 negatively regulates toll-like receptor (TLR) mediated cytokine and antibody production (14).				
Background References		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 W: Western Blotting

Cross-Reactivity Key

H: Human

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

SignalSilence is a registered trademark of Cell Signaling Technology, Inc.

KARPAS cell line source: Dr. Abraham Karpas at the University of Cambridge.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.