

OX40 (D1S6L) 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

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Applications: W, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #P43489	Entrez-Gene Id: 7293
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Flow Cytometry (Fixed.	•	istry)		Dilution 1:1000 1:50 1:800 1:400
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		OX40 (D1S6L) Rabbit mAb recognizes endogenous levels of total OX40 protein. This antibody binds the intracellular domain of human OX40 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human OX40 protein.				
Background		OX40 (TNFRSF4, CD134) is a member of the tumor necrosis factor (TNF) receptor superfamily that regulates T cell activity and immune responses. The OX40 protein contains four cysteine rich domains, a transmembrane domain, and a cytoplasmic tail containing a QEE motif (1,2). OX40 is primarily expressed on activated CD4+ and CD8+ T-cells, while the OX40 ligand (OX40L, TNFSF4, CD252) is predominantly expressed on activated antigen presenting cells (3-7). The engagement of OX40 with OX40L leads to the recruitment of TNF receptor-associated factors (TRAFs) and results in the formation of a TCR-independent signaling complex. One component of this complex, PKCθ, activates the NF-κB pathway (2,8). OX40 signaling through Akt can also enhance TCR signaling directly (9). Research studies indicate that the OX40L-OX40 pathway is associated with inflammation and autoimmune diseases (10). Additional research studies show that OX40 agonists augment anti-tumor immunity in several cancer types (11,12).				
Background References		1. Croft, M. (2010) <i>Annu Rev Immunol</i> 28, 57-78. 2. So, T. and Croft, M. (2012) <i>Front Immunol</i> 3, 133. 3. Paterson, D.J. et al. (1987) <i>Mol Immunol</i> 24, 1281-90. 4. Mallett, S. et al. (1990) <i>EMBO J</i> 9, 1063-8. 5. Dürkop, H. et al. (1995) <i>Br J Haematol</i> 91, 927-31. 6. Godfrey, W.R. et al. (1994) <i>J Exp Med</i> 180, 757-62. 7. Al-Shamkhani, A. et al. (1997) <i>J Biol Chem</i> 272, 5275-82. 8. So, T. et al. (2011) <i>Proc Natl Acad Sci U S A</i> 108, 2903-8. 9. So, T. and Croft, M. (2013) <i>Front Immunol</i> 4, 139. 10. Gough, M.J. and Weinberg, A.D. (2009) <i>Adv Exp Med Biol</i> 647, 94-107. 11. Weinberg, A.D. et al. (2011) <i>Immunol Rev</i> 244, 218-31. 12. Linch, S.N. et al. (2015) <i>Front Oncol</i> 5, 34.				

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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