OX40 (D4N3K) Rabbit mAb (Alexa Fluor® 647 Conjugate)



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Applications: FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P43489	Entrez-Gene Id: 7293
Product Usage Information		Application Flow Cytometry (Live)			Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		OX40 (D4N3K) Rabbit mAb (Alexa Fluor $^{\otimes}$ 647 Conjugate) recognizes endogenous levels of total OX40 protein. This antibody binds the extracellular domain of human OX40 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln156 of human OX40 protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated OX40 (D4N3K) Rabbit mAb #15122.			
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).

Applications Key

FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

H: Human

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