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OX40 (D4N3K) Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



Orders:	877-616-CELL (2355) orders@cellsignal.com
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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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/Sensi	tivity	OX40 (D4N3K) Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of total OX40 protein. This antibody binds the extracellular domain of human OX40 protein.					
Source / Purifica	tion	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 [®] 488 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 Ref	erences	 Croft, M. (2010) Annu Rev Immunol 28, 57-78. So, T. and Croft, M. (2012) Front Immunol 3, 133. Paterson, D.J. et al. (1987) Mol Immunol 24, 1281-90. Mallett, S. et al. (1990) EMBO J 9, 1063-8. Dürkop, H. et al. (1995) Br J Haematol 91, 927-31. Godfrey, W.R. et al. (1994) J Exp Med 180, 757-62. Al-Shamkhani, A. et al. (1997) J Biol Chem 272, 5275-82. So, T. et al. (2011) Proc Natl Acad Sci U S A 108, 2903-8. So, T. et al. (2011) Front Immunol 4, 139. Gough, M.J. and Weinberg, A.D. (2009) Adv Exp Med Biol 647, 94-107. Weinberg, A.D. et al. (2011) Immunol Rev 244, 218-31. Linch, S.N. et al. (2015) Front Oncol 5, 34. 					
Species Reactivi	ty	Species reactivity is deter	mined by testing in at le	ast one approved ap	plication (e.g., western blot).		
Applications Key	/	FC-L: Flow Cytometry (Live)					
Cross-Reactivity	Кеу	H: Human					
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		transfer of this product is	conditioned on the buy	er using the purchas	fe Technologies Corporation. The ed product solely in research vice research, and the buyer		

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