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0X40 (D1S6L) Rabbit mAb (Alexa Fluor[®] 647 Conjugate) 921



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

Applications: IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P43489	Entrez-Gene Id: 7293	
Product Usage Information		Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)		Dilution 1:50 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 (D1S6L) Rabbit mAb (Alexa Fluor [®] 647 Conjugate) recognizes endogenous levels of total OX40 protein. This antibody binds the intracellular domain of human OX40 protein.				
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus 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 (D1S6L) Rabbit mAb #15123.				
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. and Croft, M. (2013) 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 Reactivit	ţy	Species reactivity is deter	mined by testing in at le	ast one approved app	lication (e.g., western blot).	
Applications Key	,	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity	Кеу	H: Human				
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		Alexa Fluor is a registered	d trademark of Life Techr	nologies Corporation.		

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