

# TNFRSF8/CD30 (E7E4D) XP® Rabbit mAb (Alexa Fluor® 594 Conjugate)



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Applications: FC-L	Reactivity: H Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P28908	Entrez-Gene Id: 943
<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Live)				<b>Dilution</b> 1:50
<b>Storage</b>	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.				
<b>Specificity/Sensitivity</b>	TNFRSF8/CD30 (E7E4D) XP® Rabbit mAb (Alexa Fluor® 594 Conjugate) recognizes endogenous levels of total TNFRSF8/CD30 protein.				
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the extracellular domain of human TNFRSF8/CD30 protein.				
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 594 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated TNFRSF8/CD30 (E7E4D) XP® Rabbit mAb #25114.				
<b>Background</b>	TNFRSF8/CD30 is a type-I transmembrane glycoprotein that is a member of the TNFR superfamily. CD30 is synthesized as a precursor protein that undergoes extensive post-translational modification before becoming embedded in the plasma membrane as a 120-kDa transmembrane protein (1,2). The expression of CD30 is upregulated in activated T cells and may trigger costimulatory signaling pathways upon its engagement (3,4). While its expression is normally restricted to subsets of activated T cells and B cells, CD30 expression is robustly upregulated in hematologic malignancies, such as Hodgkin lymphoma (HL), anaplastic large cell lymphoma (ALCL), and adult T-cell leukemia, thus making it an attractive target for therapeutic intervention (5,6). Research studies have suggested that in certain disease contexts, CD30 recruits TRAF2 and TRAF5 adaptor proteins to drive NF-kappa B activation, aberrant cell growth, and cytokine production (7-9). CD30 signaling is also regulated by TACE-dependent proteolytic cleavage of its ectodomain, which results in reduced CD30L-dependent activation of CD30 <sup>+</sup> cells (10,11).				
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Froese, P. et al. (1987) <i>J Immunol</i> 139, 2081-7.</li> <li>2. Nawrocki, J.F. et al. (1988) <i>J Immunol</i> 141, 672-80.</li> <li>3. Del Prete, G. et al. (1995) <i>J Exp Med</i> 182, 1655-61.</li> <li>4. Gilfillan, M.C. et al. (1998) <i>J Immunol</i> 160, 2180-7.</li> <li>5. Stein, H. et al. (1985) <i>Blood</i> 66, 848-58.</li> <li>6. Chiarle, R. et al. (1999) <i>Clin Immunol</i> 90, 157-64.</li> <li>7. Horie, R. et al. (2002) <i>Am J Pathol</i> 160, 1647-54.</li> <li>8. Horie, R. et al. (2002) <i>Oncogene</i> 21, 2493-503.</li> <li>9. Horie, R. et al. (2004) <i>Cancer Cell</i> 5, 353-64.</li> <li>10. Hansen, H.P. et al. (2000) <i>J Immunol</i> 165, 6703-9.</li> <li>11. Gruss, H.J. et al. (1997) <i>Immunol Today</i> 18, 156-63.</li> </ol>				

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-L:</b> Flow Cytometry (Live)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>Mk:</b> Monkey
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