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#9473

## Zap-70 (D1C10E) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)



**Cell Signaling**  
TECHNOLOGY®

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<b>Applications:</b> FC-FP	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P43403	<b>Entrez-Gene Id:</b> 7535
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<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>	Zap-70 (D1C10E) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of total Zap-70 protein. This antibody does not cross-react with other related proteins.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the amino terminus of human Zap-70 protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Zap-70 (D1C10E) XP® Rabbit mAb #3165.	
<b>Background</b>	The Syk family protein tyrosine kinase Zap-70 is expressed in T and NK cells and plays a critical role in mediating T cell activation in response to T cell receptor (TCR) engagement (1). Following TCR engagement, Zap-70 is rapidly phosphorylated on several tyrosine residues through autophosphorylation and transphosphorylation by the Src family tyrosine kinase Lck (2-6). Tyrosine phosphorylation correlates with increased Zap-70 kinase activity and downstream signaling events. Expression of Zap-70 is correlated with disease progression and survival in patients with chronic lymphocytic leukemia (7,8).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Chu, D.H. et al. (1998) <i>Immunol Rev</i> 165, 167-80.</li> <li>2. Iwashima, M. et al. (1994) <i>Science</i> 263, 1136-9.</li> <li>3. Neumeister, E.N. et al. (1995) <i>Mol Cell Biol</i> 15, 3171-8.</li> <li>4. Chan, A.C. et al. (1995) <i>EMBO J</i> 14, 2499-508.</li> <li>5. Williams, B.L. et al. (1999) <i>EMBO J</i> 18, 1832-44.</li> <li>6. Di Bartolo, V. et al. (1999) <i>J Biol Chem</i> 274, 6285-94.</li> <li>7. Wiestner, A. et al. (2003) <i>Blood</i> 101, 4944-51.</li> <li>8. Crespo, M. et al. (2003) <i>N Engl J Med</i> 348, 1764-75.</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-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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