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## Phospho-HS1 (Tyr397) (D12C1) XP<sup>®</sup> Rabbit mAb (Pacific Blue<sup>™</sup> Conjugate)

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P14317	<b>Entrez-Gene Id:</b> 3059
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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. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>	
<b>Specificity/Sensitivity</b>	Phospho-HS1 (Tyr397) (D12C1) XP <sup>®</sup> Rabbit mAb (Pacific Blue <sup>™</sup> Conjugate) recognizes endogenous levels of HS1 protein only when phosphorylated at Tyr397.	
<b>Species predicted to react based on 100% sequence homology</b>	Mouse, Rat	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr405 of mouse HS1 protein. This site corresponds to Tyr397 of human HS1 protein.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to Pacific Blue <sup>™</sup> fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-HS1 (Tyr397) (D12C1) XP <sup>®</sup> Rabbit mAb #8714.	
<b>Background</b>	HS1 (HCLS1, LckBP1, p75) is a protein kinase substrate that is expressed only in tissues and cells of hematopoietic origin (1,2). HS1 contains four cortactin repeats and a single SH3 domain (2). This intracellular protein is phosphorylated following immune receptor activation, which promotes recruitment of HS1 to the immune synapse (3-5). Phosphorylation of HS1 is required to regulate actin dynamics and provide docking sites for many other signaling molecules, such as Vav1 and PLCγ1 (6). HS1 also plays an important role in platelet activation (7).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Kitamura, D. et al. (1989) <i>Nucleic Acids Res</i> 17, 9367-79.</li> <li>2. Kitamura, D. et al. (1995) <i>Biochem Biophys Res Commun</i> 208, 1137-46.</li> <li>3. Suzuki, H. et al. (1997) <i>J Immunol</i> 159, 5881-8.</li> <li>4. Hata, D. et al. (1994) <i>Immunol Lett</i> 40, 65-71.</li> <li>5. Yamanashi, Y. et al. (1993) <i>Proc Natl Acad Sci USA</i> 90, 3631-5.</li> <li>6. Gomez, T.S. et al. (2006) <i>Immunity</i> 24, 741-52.</li> <li>7. Kahner, B.N. et al. (2007) <i>Blood</i> 110, 2449-56.</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	
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