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Phospho-HS1 (Tyr378/397) (D12C1) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC, FC-FP	H	Endogenous	Rabbit IgG	#P14317	3059
Product Usage Information	Application			Dilution	
	Immunofluorescence (Immunocytochemistry)			1:50	
	Flow Cytometry (Fixed/Permeabilized)			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/Sensitivity	Phospho-HS1 (Tyr378/397) (D12C1) XP [®] Rabbit mAb (Alexa Fluor [®] 647 Conjugate) recognizes endogenous levels of HS1 protein only when phosphorylated at Tyr378 or Tyr397.				
Species predicted to react based on 100% sequence homology	Mouse, Rat				
Source / Purification	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.				
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-HS1 (Tyr378/397) (D12C1) XP [®] Rabbit mAb #8714.				
Background	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).				
Background References	<ol style="list-style-type: none"> 1. Kitamura, D. et al. (1989) <i>Nucleic Acids Res</i> 17, 9367-79. 2. Kitamura, D. et al. (1995) <i>Biochem Biophys Res Commun</i> 208, 1137-46. 3. Suzuki, H. et al. (1997) <i>J Immunol</i> 159, 5881-8. 4. Hata, D. et al. (1994) <i>Immunol Lett</i> 40, 65-71. 5. Yamanashi, Y. et al. (1993) <i>Proc Natl Acad Sci USA</i> 90, 3631-5. 6. Gomez, T.S. et al. (2006) <i>Immunity</i> 24, 741-52. 7. Kahner, B.N. et al. (2007) <i>Blood</i> 110, 2449-56. 				
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key	H: Human				
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