

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



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Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P14317	Entrez-Gene Id: 3059
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 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 antibodies. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-HS1 (Tyr378/397) (D12C1) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of HS1 protein only when phosphorylated at Tyr378 or Tyr397.			
Species predicted based on 100% so homology	d to react equence	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 phycoerythrin (PE) 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 (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). HS1 is rapidly phosphorylated at Tyr397 by Syk and/or Lyn kinases following immune receptor stimulation and thrombin-mediated platelet stimulation. This phosphorylation is an important step in cytoskeletal rearrangement and signaling complex formation (6-10).			
Background References		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. 8. Yamanashi, Y. et al. (1997) <i>J Exp Med</i> 185, 1387-92. 9. Hao, J.J. et al. (2004) <i>J Biol Chem</i> 279, 33413-20. 10. Brunati, A.M. et al. (2005) <i>J Biol Chem</i> 280, 21029-35.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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