

#4503 Store at -20°C

HS1 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	80	Rabbit	#P14317	3059

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	HS1 Antibody detects endogenous levels of total HS1 protein. This antibody does not recognize mouse and rat HS1 proteins. HS1 has a calculated size of 54 kDa, but has an apparent molecular weight of 80 kDa on SDS-PAGE gels.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro310 of human HS1. Antibodies are purified by peptide affinity chromatography.	
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	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).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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