

Datasheet for ABIN968027
anti-HCLS1 antibody (AA 17-190)

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Overview

Quantity:	150 µg
Target:	HCLS1
Binding Specificity:	AA 17-190
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HCLS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Human HS1 aa. 17-190
Clone:	9-HS1
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	HCLS1
Alternative Name:	HS1 (HCLS1 Products)
Background:	HS1 (lck-binding protein 1 (lckBP1)) is a protein of 486 amino acids with homology to cytoplasmic tyrosine kinases. The protein contains an SH3 domain and two proline-rich regions, that may be the binding site for lck. Co- mmunoprecipitation experiments demonstrated a tight association between HS1 and lck. The SH3 domain of lck is necessary for this interaction. In addition, HS1 contains tandem repeat sequence of seven amino acids which is a substrate for the tyrosine kinase src. This sequence is also found in the protein cortactin. Therefore, HS1, like cortactin, may be an important adaptor that is critical for the regulation of cellular tyrosine kinases. This antibody is routinely tested by western blot analysis.
Molecular Weight:	75 kDa
Pathways:	Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Actin Filament Polymerization , Myometrial Relaxation and Contraction , Maintenance of Protein Location

Application Details

Comment:	Related Products: ABIN968536, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

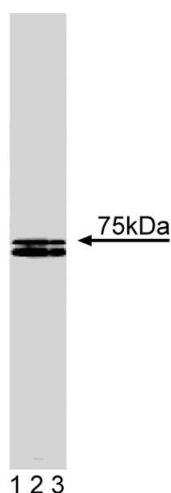
Publications

Product cited in: Fukuda, Kitamura, Taniuchi, Maekawa, Benhamou, Sarthou, Watanabe: "Restoration of surface IgM-mediated apoptosis in an anti-IgM-resistant variant of WEHI-231 lymphoma cells by HS1, a protein-tyrosine kinase substrate." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 92, Issue 16, pp. 7302-6, (1995) ([PubMed](#)).

Takemoto, Furuta, Li, Strong-Sparks, Hashimoto: "LckBP1, a proline-rich protein expressed in haematopoietic lineage cells, directly associates with the SH3 domain of protein tyrosine kinase p56lck." in: **The EMBO journal**, Vol. 14, Issue 14, pp. 3403-14, (1995) ([PubMed](#)).

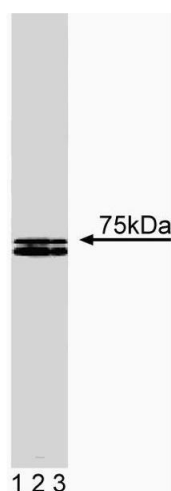
Yamanashi, Okada, Semba, Yamori, Umemori, Tsunasawa, Toyoshima, Kitamura, Watanabe, Yamamoto: "Identification of HS1 protein as a major substrate of protein-tyrosine kinase(s) upon B-cell antigen receptor-mediated signaling." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 90, Issue 8, pp. 3631-5, (1993) ([PubMed](#)).

Images



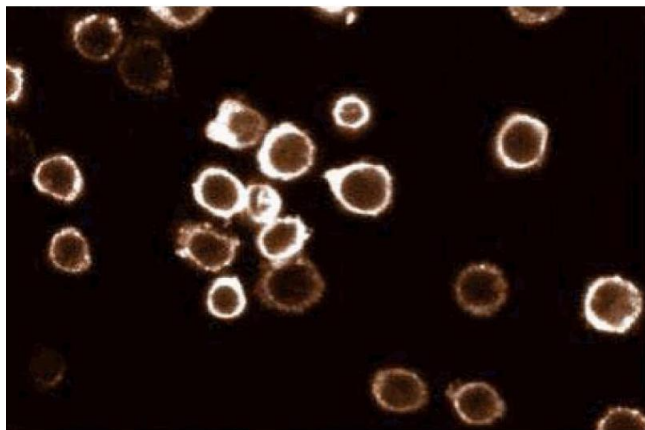
Western Blotting

Image 1.



Western Blotting

Image 2. Western blot analysis of HS1 on human endothelial lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of HS1.



Immunofluorescence

Image 3. Immunofluorescent staining of HL60 cells with anti-HS1 antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968027.