

## Product datasheet for **TA330628**

### HCLS1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-HCLS1 antibody: synthetic peptide directed towards the N terminal of human HCLS1. Synthetic peptide located within the following region: FGVERDRMDKSAVGHEYVAEVEKHSSQTDAAKGFGGKYGVERDRADKSAV
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	54 kDa
Gene Name:	hematopoietic cell-specific Lyn substrate 1
Database Link:	<a href="#">NP_005326</a> <a href="#">Entrez Gene 3059 Human</a> <a href="#">P14317</a>



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**Background:** HS1 which is hematopoietic lineage cell-specific protein 1, is a substrate of protein tyrosine kinases in lymphocytes, it binds to F-actin, and promotes Arp2/3 complex-mediated actin polymerization. However, the mechanism for the interaction between HS1 and F-actin has not yet been fully characterized. HS1 contains 3.5 tandem repeats, a coiled-coil region, and an SH3 domain at the C terminus. Unlike cortactin, which is closely related to HS1 and requires absolutely the repeat domain for F-actin binding, an HS1 mutant with deletion of the repeat domain maintains a significant F-actin binding activity. Deletion of the coiled-coil region abolished the ability of HS1 to bind to actin filaments and to activate the Arp2/3 complex for actin nucleation and actin branching.

**Synonyms:** CTTNL; HS1; lckBP1; p75

**Note:** Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 93%; Guinea pig: 93%; Mouse: 92%

**Protein Families:** Transcription Factors

**Protein Pathways:** Pathogenic Escherichia coli infection, Tight junction

### Product images:



WB Suggested Anti-HCLS1 Antibody Titration: 1.25ug/ml; Positive Control: Jurkat cell lysate  
HCLS1 is supported by BioGPS gene expression data to be expressed in Jurkat