Datasheet for ABIN2779751

anti-HCLS1 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	HCLS1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Guinea Pig, Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HCLS1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human HCLS1
Sequence:	FGVERDRMDK SAVGHEYVAE VEKHSSQTDA AKGFGGKYGV ERDRADKSAV
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 92%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against HCLS1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	HCLS1

Target Details

Alternative Name:	HCLS1 (HCLS1 Products)
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. Alias Symbols: HS1, CTTNL Protein Interaction Partner: SH2D4A, UBC, Mbp, Dlg4, NOTCH1, QKI, TERF1, TRIM29, SSBP3, BLZF1, IKBKG, LZTR1, ZBTB25, HS1BP3, HAX1, ACTR2, MAP4K1, CASP3, SYK, WAS, LYN, FGR, CSNK2A1, CD79A, ACTA1, GRB2, ACTR3, Protein Size: 486
Molecular Weight:	54 kDa
Gene ID:	3059
NCBI Accession:	NM_005335, NP_005326
UniProt:	P14317
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

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 486 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific

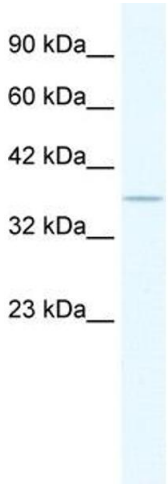
Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Ruzzene, Penzo, Pinna: "Protein kinase CK2 inhibitor 4,5,6,7-tetrabromobenzotriazole (TBB) induces apoptosis and caspase-dependent degradation of haematopoietic lineage cell-specific protein 1 (HS1) in Jurkat cells." in: **The Biochemical journal**, Vol. 364, Issue Pt 1, pp. 41-7, (2002) (PubMed).

Images



Western Blotting

Image 1. 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