Human/Mouse/Rat HCLS1 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5789T
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat HCLS1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human HCLS1 Met1-Gly84 Accession # P14317
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HCLS1 (Hematopoietic lineage cell-specific protein; also HS1 and LckBP1) is a cytoplasmic substrate for non-receptor type protein-tyrosine kinases. Although its predicted MW is 54 kDa, it migrates anomalously at 75-80 kDa in SDS-PAGE. HCLS1 is restricted to myeloid/lymphoid lineage cell types, including platelets, B cells, T cells and mast cells. HCLS1 binds to F-actin and promotes actin polymerization. It also serves as an intermediate for *src*-mediated signal transduction. Human HCLS1 is 486 amino acids (aa) in length. It contains one HAX1 binding site (aa 27-66), three-plus cortactin type repeats (aa 79-212), a coiled-coil region (aa 215-280) and an SH3 domain (aa 437-484). HCLS1 is initially phosphorylated by Syk at Tyr378 and Tyr397, followed by a Src family kinase phosphorylation at Tyr222. This activates HCLS1, allowing it to interact with Ras-associated Grb2.

PRODUCT SPECIFIC NOTICES

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