Human CIS-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3194

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CIS-1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CIS-1 Leu11-Leu258 Accession # Q9NSE2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

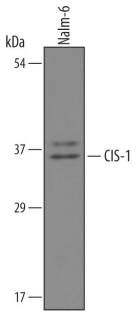
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	Immersion fixed human peripheral blood mononuclear cells

DATA

Western Blot



Detection of Human CIS-1 by Western Blot. Western blot shows lysates of Nalm-6 human Pre-B acute lymphocytic leukemia cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human CIS-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3194) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for CIS-1 at approximately 35-40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Cytokine Inducible SH2-containing protein (CIS-1) is a 29 kDa protein found in a variety of cell types. Mono or polyubiquitination generally results in a 37 or 45 kDa molecule. CIS-1 binds to phosphorylated cytokine receptors IL-3 Rβ and EPO-R and blocks downstream activation of STAT5 via receptor internalization and ubiquitin-mediated proteosomal degradation. Human CIS-1 is a 258 aa peptide that contains one SH2 domain (aa 82-163) and one SOCS box (aa 218-258). There are two known alternatively spliced variants with a 7- or 13-aa substitution for the 7 N-terminal amino acid residues. Over the region used as immunogen, human CIS-1 is 91% identical to the corresponding mouse and canine protein sequences.

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