

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RUNX1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RUNX1 Gly190-Tyr453 Accession # Q01196
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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	2 µg/mL	See Below
Simple Western	20 µg/mL	See Below

DATA

Western Blot

Detection of Human RUNX1/CBFA2 by Western Blot. Western blot shows cytoplasmic and nuclear extracts from Jurkat human acute T cell leukemia cell line and MOLT-4 human acute lymphoblastic leukemia cell line. PVDF membrane was probed with 2 µg/mL of Goat Anti-Human RUNX1/CBFA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2399) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for RUNX1/CBFA2 at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western

Detection of Human RUNX1/CBFA2 by Simple Western™. Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for RUNX1/CBFA2 at approximately 59 kDa (as indicated) using 20 µg/mL of Goat Anti-Human RUNX1/CBFA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2399) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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. <ul style="list-style-type: none"> ● 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

RUNX1, also known as CBFA2, is one of three members of the Runt-related family. The RUNX/CBFA proteins form the α subunits that combine with the β subunit (CBFB) to form the heterodimeric transcription factors. RUNX/CBFA plays important roles in hematopoiesis and may regulate the generation of hematopoietic stem cells from hematogenic endothelial cells. Deregulated expression of CBFA2/RUNX1 is associated with malignant diseases of the hematopoietic system. Human and mouse RUNX/CBFA share 95% amino acid sequence homology.