

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RUNX1/CBFA2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) RUNX2 or rhRUNX3 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 751926
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human RUNX1/CBFA2 Gly217-Tyr480 Accession # Q01196-8
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

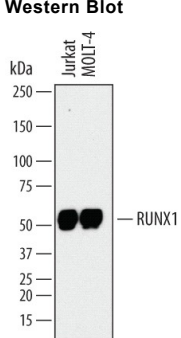
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

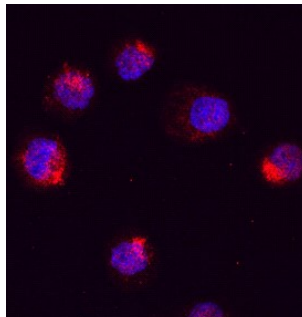
DATA

Western Blot



Detection of Human RUNX1/CBFA2 by Western Blot.
Western blot shows lysates of 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 Mouse Anti-Human RUNX1/CBFA2 Monoclonal Antibody (Catalog # MAB23991) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). 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.

Immunocytochemistry



RUNX1/CBFA2 in K562 Human Cell Line.
RUNX1/CBFA2 was detected in immersion fixed K562 human chronic myelogenous leukemia cell line using Mouse Anti-Human RUNX1/CBFA2 Monoclonal Antibody (Catalog # MAB23991) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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 (runt-related transcription factor 1), also known as CBFA2 (core-binding factor α2) or AML1 (acute myelogenous leukemia 1), is a heterodimeric transcription factor that plays a role in normal hematopoiesis. Multiple splice variants exist. Defects in RUNX1 are associated with several types of leukemia.