

## DESCRIPTION

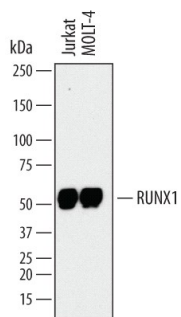
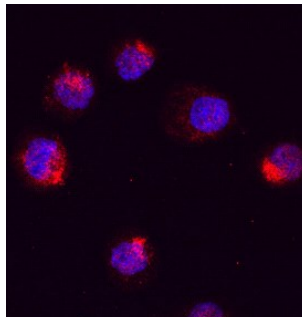
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human RUNX1/CBFA2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) RUNX2 or rhRUNX3 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 751926
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human RUNX1/CBFA2 Gly217-Tyr480 Accession # Q01196-8
<b>Formulation</b>	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
<b>Western Blot</b>	2 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human RUNX1/CBFA2 by Western Blot.</b> 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.</p>	<p><b>Immunocytochemistry</b></p>  <p><b>RUNX1/CBFA2 in K562 Human Cell Line.</b> 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 <a href="#">Fluorescent ICC Staining of Non-adherent Cells</a>.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.