

DESCRIPTION

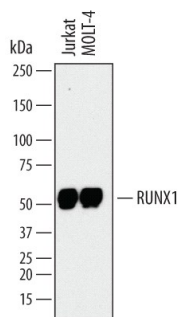
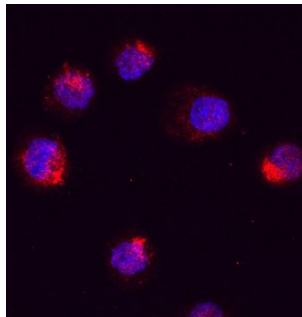
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| Species Reactivity | Human |
| Specificity | Detects human RUNX1/CBFA2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) RUNX2 or rhRUNX3 is observed. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 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 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

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| <p>Western Blot</p>  <p>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.</p> | <p>Immunocytochemistry</p>  <p>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.</p> |
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PREPARATION AND STORAGE

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| 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.