

DESCRIPTION

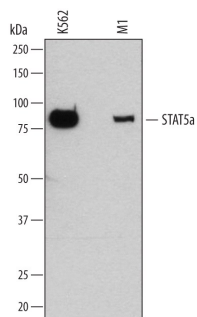
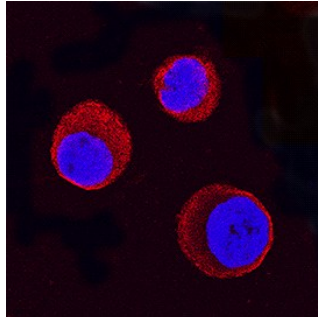
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse STAT5a. Does not cross-react with STAT5b.
Source	Monoclonal Mouse IgG ₃ Clone # 251619
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human STAT5a synthetic peptide SLDSRLSPAGLFTSARGSL Accession # NP_003143
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

<p>Western Blot</p>  <p>Detection of Human and Mouse STAT5a by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and M1 mouse myeloid leukemia cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human/Mouse STAT5a Monoclonal Antibody (Catalog # MAB2174) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for STAT5a at approximately 91 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>STAT5a in K562 Human Cell Line. STAT5a was detected in immersion fixed K562 human chronic myelogenous leukemia cell line using Mouse Anti-Human/Mouse STAT5a Monoclonal Antibody (Catalog # MAB2174) at 25 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>
--	---

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

STAT family proteins mediate cytokine signaling by acting as signal transducers in the cytoplasm and transcription activators in the nucleus. STAT5a and STAT5b are encoded by separate genes and share 93% amino acid identity.