

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse STAT5b.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Human STAT5b synthetic peptide aa 777-787
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

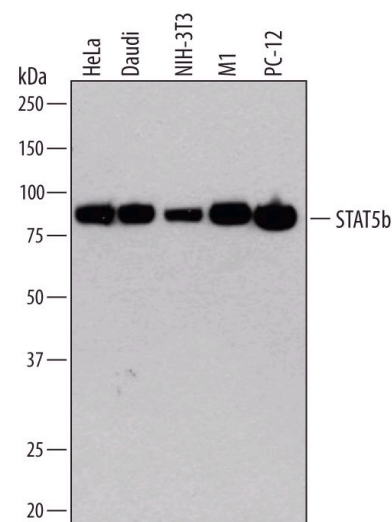
APPLICATIONS

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	0.2 µg/mL	See Below
Immunoprecipitation	10 µg/10 ⁶ cells	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below

DATA

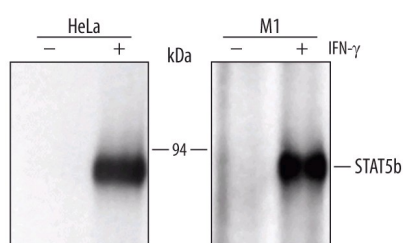
Western Blot



Detection of Human, Mouse, and Rat STAT5b by Western Blot.

Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, Daudi human Burkitt's lymphoma cell line, NIH-3T3 mouse embryonic fibroblast cell line, M1 mouse myeloid leukemia cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.2 µg/mL of Rabbit Anti-Human/Mouse STAT5b Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1584) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for STAT5b at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

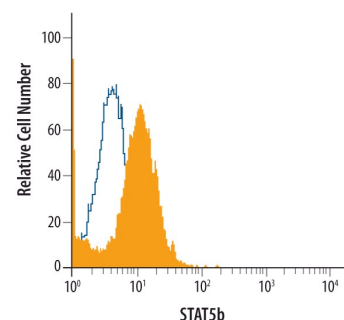
Immunoprecipitation



Immunoprecipitation of Human and Mouse STAT5b.

HeLa human cervical epithelial carcinoma and M1 mouse myeloid leukemia cell line were untreated (-) or activated (+) with 100 ng/mL Recombinant Human IFN-γ (Catalog # 285-IF) for 15 minutes. STAT5b was immunoprecipitated from lysates of 5 x 10⁶ cells following incubation with 2 µg Rabbit Anti-Human/Mouse STAT5b Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1584) for 1 hour at room temperature. STAT5b-antibody complexes were absorbed using Protein A sepharose (Invitrogen, Catalog # 10-1041). Immunoprecipitated STAT5b was detected by Western blot using 1 µg/mL Human Phospho-STAT5a/b (Y699) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4190). View our [recommended buffer recipes for immunoprecipitation](#).

Intracellular Staining by Flow Cytometry



Detection of STAT5b in Jurkat Human Cell Line by Flow Cytometry.

Jurkat human acute T cell leukemia cell line was stained with Rabbit Anti-Human/Mouse STAT5b Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1584, filled histogram) or control antibody (Catalog # AB-105-C, open histogram), followed by Allophycocyanin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with methanol.

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.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. ● 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.