

Human Phospho-STAT1 (Y701) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1086B Catalog Number: MAB2894

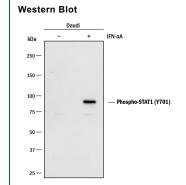
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human STAT1 when phosphorylated at Y701 in Western blots.	
Source	Recombinant Monoclonal Rabbit IgG Clone # 1086B	
Purification	Protein A or G purified from cell culture supernatant	
Immunogen	Phosphopeptide containing the human STAT1 Y701 site Accession # NP009330	
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

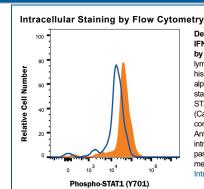
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.25 μg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 μg/10 ⁶ cells	See Below

DATA



Detection of Human Phospho-STAT1 (Y701) by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line untreated (-) or treated (+) with Recombinant Human IFN-αA (Catalog # 11100-1) for 20 minutes. PVDF membrane was probed with 0.25 µg/mL of Rabbit Anti-Human Phospho-STAT1 (Y701) Monoclonal Antibody (Catalog # MAB2894) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-STAT1 (Y701) at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Phospho-STAT1 (Y701) in IFN alpha-treated Daudi Human Cell Line by Flow Cytometry. Daudi human Burkit's lymphoma cell line was unstimulated (open histogram) or treated with 500 U/mL rhIFN-alpha for 20 minutes (filled histogram) and stained with Rabbit anti-Human Phospho-STAT1 (Y701) Molyclonal Antibody (Catalog # MAB2894) followed by APC-conjugated Anti-Rabbit lgG Secondary Antibody (Catalog # F0111). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with methanol. View our protocol for Staining Intracellular Molecules.

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.

- 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

STAT1 (signal transducer and activator of transcription #1) is an 88 kDa member of the STAT family of cytoplasmic transcription factors. STAT members generally mediate cytokine, growth factor and hormone receptor signal transduction. STAT1 is associated with type I and II interferon signaling. All STATs contain an N-terminal oligomerization domain, a DNA-binding domain, and an SH2-association region. STAT1 is phosphorylated at Y701 by receptor-associated Janus kinases (JAKs) leading to STAT1 dimerization and subsequent translocation to the nucleus to activate gene transcription.

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.

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