biotechne® RDSYSTEMS

Human/Mouse STAT6 aa 342-640 Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF21671

DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human and mouse STAT6 in Western blots.	
Source	Polyclonal Rabbit IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli-</i> derived recombinant human STAT6 Asn342-Gly640 Accession # P42226	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS and Sodium Azide 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	0.2 µg/mL	See Below	
Simple Western	1 μg/mL	Daudi human Burkitt's lymphoma cell line	

DATA Western Blot Simple Western U937 Detection of Human STAT6 by Detection of Human STAT6 by Western Blot. Western blot Simple Western[™]. Simple Nuc Cyto kDa Dau kDa 11-4 shows lysates of U937 human Western shows lysates of Daudi 230 193 histiocytic lymphoma cell line human Burkitt's lymphoma cell 180 line, loaded at 0.5 mg/ml. A untreated (-) or treated (+) with 118 - STAT6 specific band was detected for 100 ng/mL Recombinant Human 116 99. IL-4 (Catalog # Catalog # 204-IL) — STAT6 STAT6 at approximately 99 kDa for 30 minutes. Gels were loaded 66 (as indicated) using 1 µg/mL of 54 with 20 µg of cytoplasmic (Cyto) Rabbit Anti-Human/Mouse STAT6 and 10 µg of nuclear extracts aa 342-640 Antigen Affinity-29 29 -(Nuc). PVDF membrane was purified Polyclonal Antibody probed with 0.2 µg/mL Rabbit (Catalog # AF21671). This 20 Anti-Human/Mouse STAT6 aa experiment was conducted under 342-640 Antigen Affinity-purified reducing conditions and using the Phospho-STAT6 (Y641) Polyclonal Antibody (Catalog # 12-230 kDa separation system. 12 -AF21671) followed by HRPconjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band for STAT6 was detected at approximately 110 kDa (as indicated). For additional reference, duplicate lysates were probed with 1.0 $\mu\text{g/mL}$ Human Phospho-STAT6 (Y641) Antigen Affinity-purified Polyclonal Antibody (lower panel, Catalog # AF3717). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1. PREPARATION AND STORAGE Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration. Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store Shipping 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.

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Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956 USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449 China | info.cn@bio-techne.com TEL: 400.821.3475



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BACKGROUND

Signal Transducer and Activator of Transcription 6 (STAT6) is a member of the Jak/STAT signal transduction pathway and mediates cytokine signaling by IL-4. IL-4 activation leads to tyrosine phosphorylation and accumulation in the nucleus of STAT6 homo and heterodimers. STAT6 binds to the consensus DNA binding site TTCN₄GAA. STAT6 transcriptional activation occurs by binding p100 and p160 class (NcoA1, Src-1) co-activators. Gene expression studies indicate that STAT6 mediates cell proliferation and anti-apoptotic effects of IL-4. Also, knockout studies in mice suggest that STAT6 functions in T helper 2 (Th2) cell differentiation and transcriptional expression of cell surface markers and class switch of immunoglobulins.