## bio-techne® RDSYSTEMS

## Human STAT5b Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 389215 Catalog Number: MAB1584

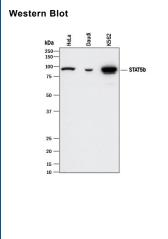
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human STAT5b in Western blots.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 389215		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Human STAT5b synthetic peptide MDSQWIPHAQS Accession # NP_036580		
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 Iγophilized 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.

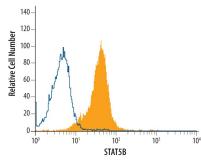
	Recommended Concentration	Sample	
Western Blot	1 µg/mL	See Below	
Immunoprecipitation	2 μg/1 mg cell lysate	Cell lysate of HAP1 human near-haploid cell line	
Intracellular Staining by Flow Cytometry	2.5 μg/10 <sup>6</sup> cells	See Below	
Simple Western	20 μg/mL	HeLa human cervical epithelial carcinoma cell line	
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.		
Knockout Validated	STAT5b is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in STAT5b knockout HeI a cell line		

DATA



Detection of Human STAT5b by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, Daudi human Burkitt's lymphoma cell line, and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human STAT5b Monoclonal Antibody (Catalog # MAB1584) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). 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.

#### 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 Mouse Anti-Human STAT5b Monoclonal Antibody (Catalog # MAB1584, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Allophycocyaninconjugated Anti-Mouse IgG F(ab')<sub>2</sub>Secondary Antibody (Catalog # F0101B).

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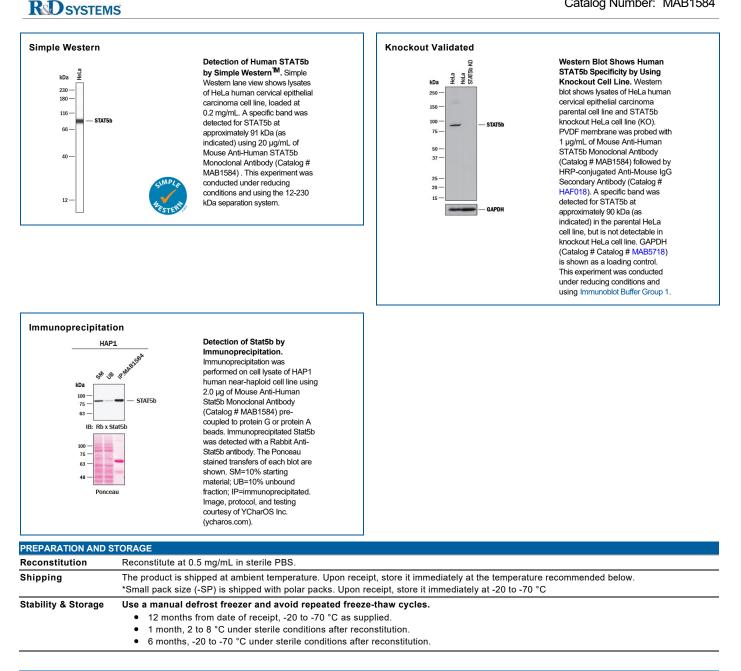


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#### BACKGROUND

Signal Transduction and Activator of Transcription 5B (STAT5b) is a member of the Jak/STAT signal transduction pathway and is activated by a variety of cytokines (IL-22, IL-6, IFNα). Upon cytokine activation, STAT5b is phosphorylated and translocates to the nucleus where it binds to the DNA consensus site TTCN<sub>3</sub>GAA and activates transcription of specific genes. STAT5b shares 93% amino acid identity with STAT5a. STAT5b is involved in a wide array of biological processes ranging from regulating apoptosis to adult mammary gland proliferation, differentiation and survival.

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