

# STAT5 beta Monoclonal Antibody (5B3)

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	5B3
Conjugate	Unconjugated
Immunogen	Purified recombinant fragment of human STAT5B expressed in E. Coli.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.03% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_10985934

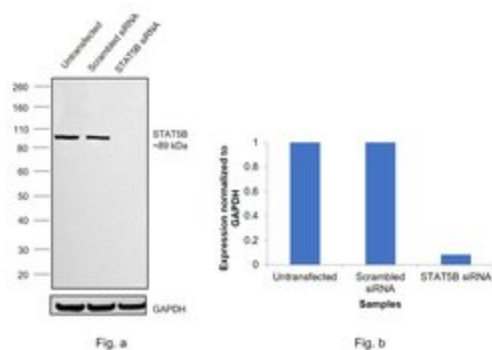
Applications	Tested Dilution	Publications
Western Blot (WB)	1/500 - 1/2000	-
Immunocytochemistry (ICC/IF)	1:200	-

## Product Specific Information

MA5-15665 targets STAT5B in WB applications and shows reactivity with Human samples.

The MA5-15665 immunogen is purified recombinant fragment of human STAT5B expressed in E. Coli.

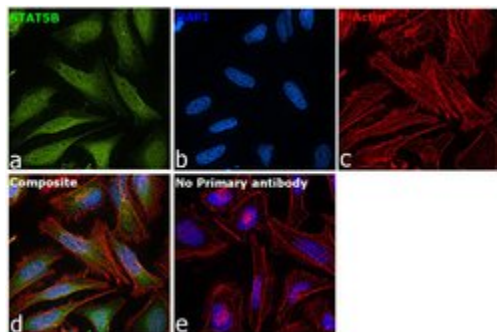
MA5-15665 detects STAT5B which has a predicted molecular weight of approximately 90kDa.



### STAT5 beta Antibody (MA5-15665)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Signal transducer and activator of transcription 5B siRNA and decrease in signal intensity was observed in Western Blot application using Anti-STAT5 beta Monoclonal Antibody (5B3) (Product # MA5-15665). Knockdown validation info.

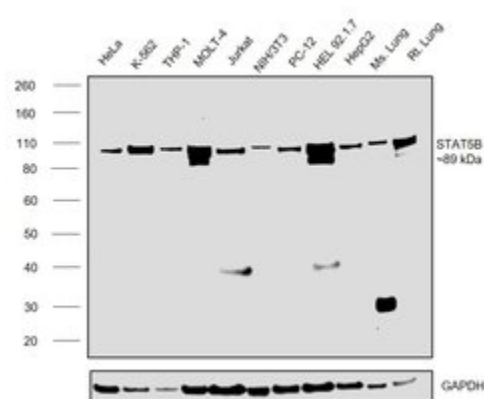
## Product Images For STAT5 beta Monoclonal Antibody (5B3)



### STAT5 beta Antibody (MA5-15665) in ICC/IF

Immunofluorescence analysis of Signal transducer and activator of transcription 5B was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with STAT5 beta Monoclonal Antibody (5B3) (Product # MA5-15665) at 1:200 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766), (1:2000), for 45 minutes at room temperature (Panel a: Blue). Nuclei (Panel b: Green) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

### STAT5 beta Antibody (MA5-15665) in WB



Western blot was performed using Anti-STAT5 beta Monoclonal Antibody (5B3) (Product # MA5-15665) and a ~89kDa band corresponding to Signal transducer and activator of transcription 5B was observed across cell lines and tissues tested. Whole cell extracts (50 µg lysate) of HeLa (Lane 1), K-562 (Lane 2), THP-1 (Lane 3), MOLT-4 (Lane 4), Jurkat (Lane 5), NIH/3T3 (Lane 6), PC-12 (Lane 7), HEL 92.1.7 (Lane 8), Hep G2 (Lane 9), Mouse Lung (Lane 10), Rat Lung (Lane 11) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2002) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Reagent Kit (Product # WP20005).

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