



Catalog: OM169083

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Stat5 Antibody (C-17) AC

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☐ 100ul

Product profile

Product name	Stat5 Antibody (C-17) AC
Antibody Type	Primary Antibodies
Modification Notes	Signal transducer and activator of transcription 5A (Stat5a) and Stat5b, which share 96% homology, undergo receptor tyrosine kinase or G protein-coupled receptor-dependent phosphorylation in response to cytokines or growth factors, and then form homo- or heterodimers that translocate to the nucleus, where they initiate transcription. Activation of Stat5a via IL-2, IL-3, IL-7/ GM-CSF, erythropoietin, thrombopoietin and growth hormones influences proliferation, differentiation and apoptosis in lymphohematopoietic cells. Phosphorylation of Stat5a at Ser127/Ser128 and Ser779 are contingent on ErbB-4-mediated activation of Stat5a. Activation of Stat5b via IL-2, IL-4, CSF-1 and growth hormones influences TCR signaling, apoptosis, adult mammary gland development and sexual dimorphism of liver gene expression. Stat5b is the major liver-expressed Stat5 form that has been shown to fuse with the retinoic acid receptor gene in acute promyelocytic leukemias (APLL). Stat5a/b null mice have severely impaired lymphoid development and differentiation.

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,IP ,IF ,FC ,ELISA
Species Reactivity	Human Mouse Rat
Concentration	1mg/ml
Purification	Affinity purified

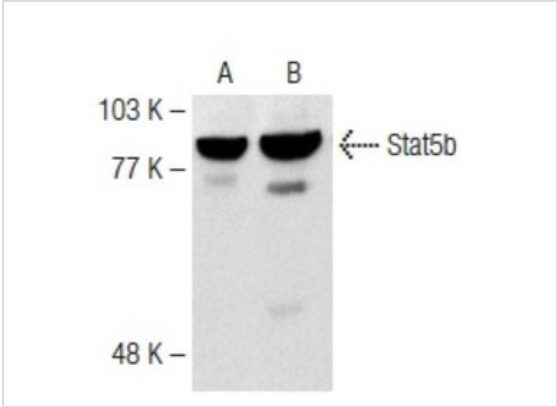
Target Information

Alternative Names	epitope mapping at the C-terminus of Stat5 of mouse origin
Tissue Specificity	epitope mapping at the C-terminus of Stat5 of mouse origin

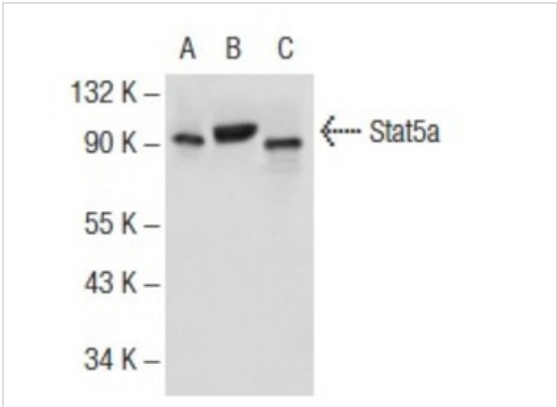
Database Links

Entrez Gene 6776

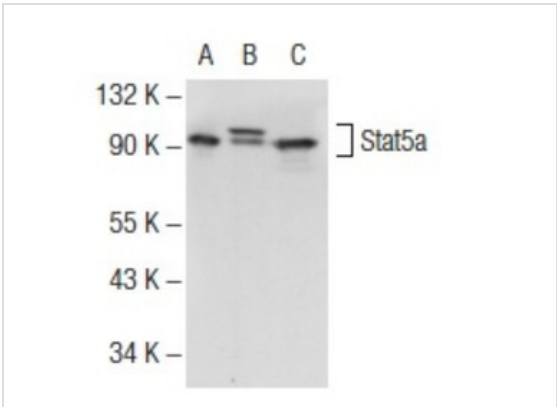
Application



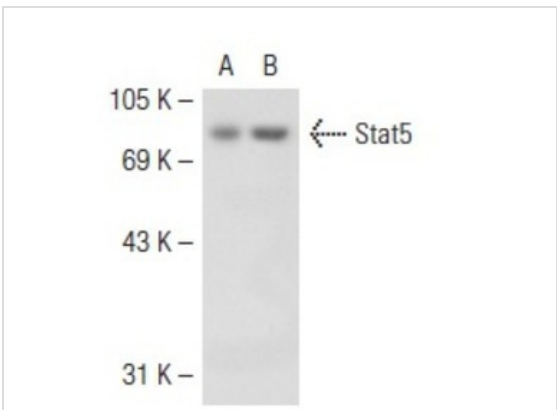
Application
Western blot analysis of Stat5b expression in SK-BR-3 (A) and K-562 (B) whole cell lysates.



Application
Western blot analysis of Stat5a expression in non-transfected: (A) and human Stat5a transfected: (B) 293T whole cell lysates and Jurkat nuclear extract (C).

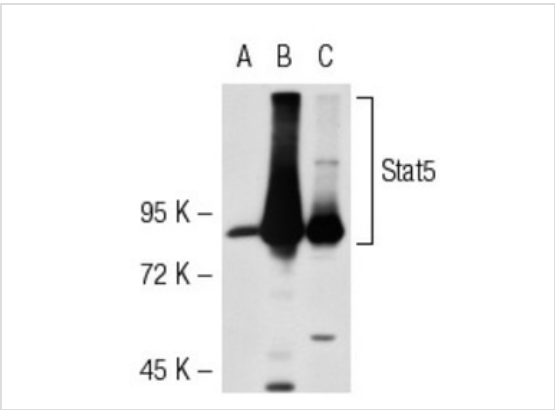


Application
Western blot analysis of Stat5a expression in non-transfected: (A) and human Stat5a transfected: (B) 293T whole cell lysates and Jurkat nuclear extract (C).



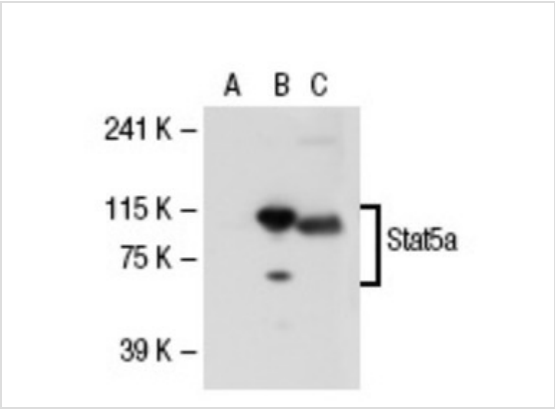
Application
Western blot analysis of Stat5 expression in 293T (A) and Jurkat (B) whole cell lysates.

Application
Western blot analysis of Stat5b expression in non-transfected 293T: (A), human Stat5b transfected 293T: (B) and BJAB (C) whole cell lysates.



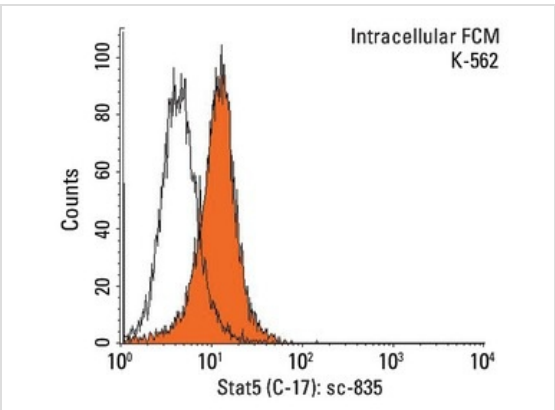
Application

Western blot analysis of Stat5a expression in non-transfected 293T: (A), human Stat5a transfected 293T: (B) and K-562 (C) whole cell lysates.



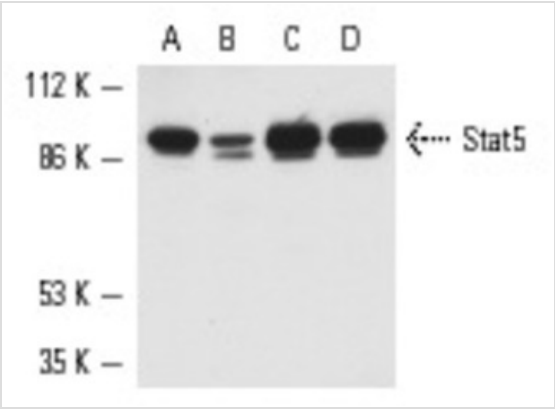
Application

Indirect, intracellular FCM analysis of fixed and permeabilized K-562 cells stained with Stat5 (C-17), followed by PE-conjugated goat anti-rabbit IgG: . Black line histogram represents the isotype control, normal rabbit IgG: .



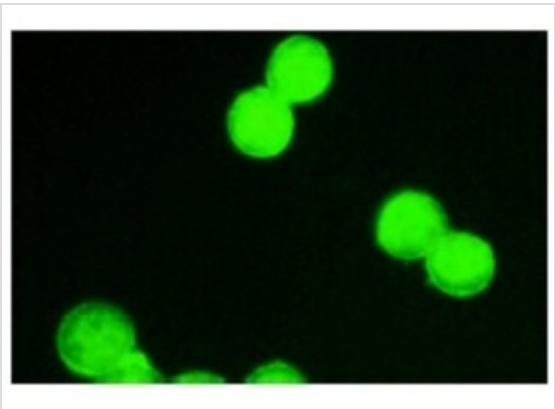
Application

Western blot analysis of Stat5 expression in Y79 (A), A-673 (B), K-562 (C) and Jurkat (D) nuclear extracts.



Application

Immunofluorescence staining of methanol-fixed K-562 cells showing nuclear staining.



Application Notes	recommended for detection of Stat5a and Stat5b of mouse, rat and human origin by WB, IP, IF, FC M, ELISA; also reactive with additional species, including equine, canine, bovine and porcine:
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Additional Information

Form	Liquid
Storage Instructions	For short-term storage, store at 4° C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Storage Buffer	phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt
