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STAT5B Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1427a

Product Information

Application	WB, E
Primary Accession	P51692
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5B3
Isotype	IgG1
Calculated MW	89866
Description	The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL.
Immunogen	Purified recombinant fragment of human STAT5B expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	6777
Other Names	Signal transducer and activator of transcription 5B, STAT5B
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	STAT5B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STAT5B (HGNC:11367)
Function	Signal transducer and transcription activator that mediates cellular responses to cytokines, hormones and growth factors (PubMed:29844444, PubMed:9188471). Binds to the GAS element and activates PRL-induced transcription. Positively regulates hematopoietic/erythroid differentiation. Involved in the oncostatin-M- mediated signaling pathway through type II OSM receptor complex (heterodimers composed of OSMR and IL6ST) (PubMed:9188471).
Cellular Location	Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation.

References

1. Mol Cancer. 2009 Aug 26;8:67. 2. Bone. 2010 Feb;46(2):524-33.

Images

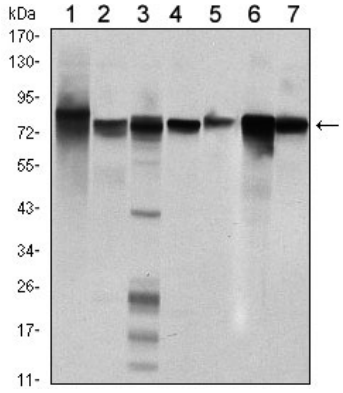


Figure 1: Western blot analysis using STAT5B mouse mAb against Hela (1), K562 (2), NIH/3T3 (3), C6 (4), HEK293 (5), Jurkat (6) and HL-60 (7) cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.