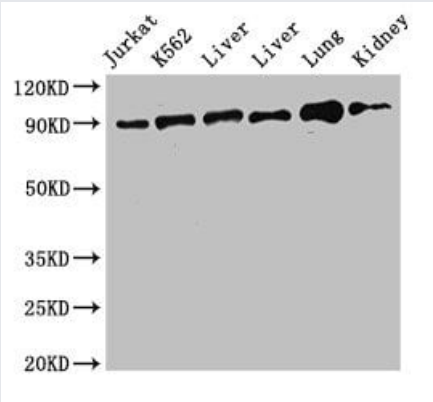
STAT5B Antibody – Rabbit Polyclonal

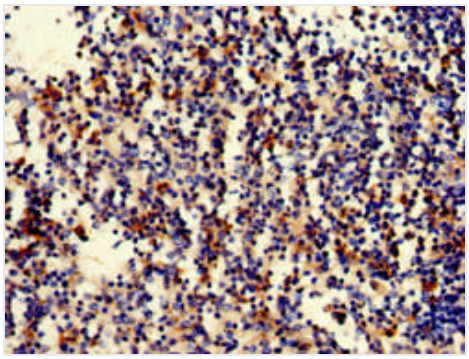
PRODUCT OVERVIEW

Product Name	STAT5B, Polyclonal Antibody
Full Product Name	STAT5B Antibody
Product Gene Name	anti-STAT5B antibody
Product Synonym Names	Signal transducer and activator of transcription 5B; STAT5B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: STAT5B (MBS7049224) HRP Conjugated Antibody: STAT5B (MBS7049225)
Matching Pairs	Unconjugated Antibody: STAT5B (MBS7049224) FITC Conjugated Antibody: STAT5B (MBS7049226)
Matching Pairs	Unconjugated Antibody: STAT5B (MBS7049224) Biotin Conjugated Antibody: STAT5B (MBS7049227)
Molecular Weight	89,866 Da
OMIM	U48730 mRNA
3D Structure	ModBase 3D Structure for P51692
Immunogen	Recombinant Human Signal transducer and activator of transcription 5B protein (1-787AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	Non-conjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-STAT5B antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-STAT5B antibody	WB: 1: 500-1: 5000 IHC: 1: 20-1: 200 IF: 1: 50-1: 200
Related Product Information for anti-STAT5B antibody	Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. Binds to the GAS element and activates PRL-induced transcription.
Other Notes	Small volumes of anti-STAT5B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

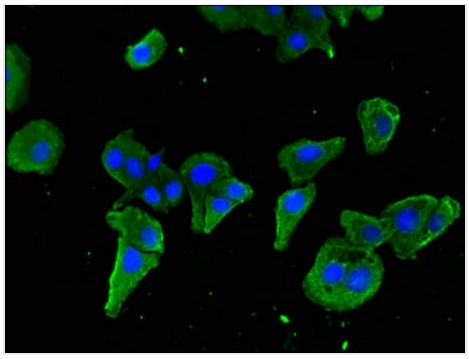
Searchable Terms for STAT5B purchase	MBS7049224 is an antibody targeting STAT5B. Also known as STAT5B Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



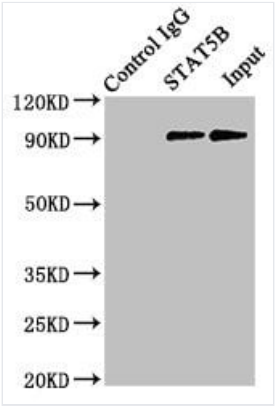
Western Blot (WB) of anti-STAT5B antibody
Western BlotPositive WB detected in: Jurkat whole cell lysate,K562 whole cell lysate,Rat liver tissue,Mouse liver tiaaue,Mouse lung tissue,Mouse kidney tissueAll lanes: STAT5B antibody at 2.4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 90 KDaObserved band size: 90 KDa



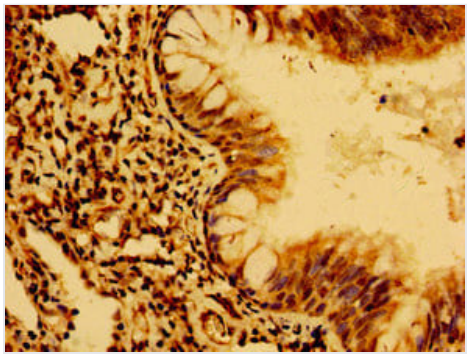
Immunohistochemistry (IHC) of anti-STAT5B antibody
Immunohistochemistry of paraffin-embedded human spleen tissue using MBS7049224 at dilution of 1:100



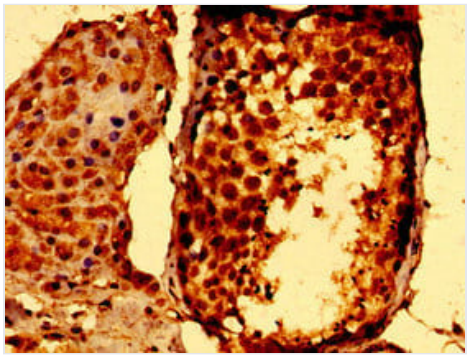
Immunohistochemistry (IHC) of anti-STAT5B antibody
Immunofluorescent analysis of HepG2 cells using MBS7049224 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunoprecipitation (IP) of anti-STAT5B antibody
Immunoprecipitating STAT5B in K562 whole cell lysateLane 1: Rabbit monoclonal IgG (1ug)instead of MBS7049224 in K562 whole cell lysate. For western blotting,a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)Lane 2: MBS7049224 (8ug)+ K562 whole cell lysate (500ug)Lane 3: K562 whole cell lysate (10ug)



Immunohistochemistry (IHC) of anti-STAT5B antibody
Immunohistochemistry of paraffin-embedded human lung cancer using MBS7049224 at dilution of 1:100



Immunohistochemistry (IHC) of anti-STAT5B antibody
Immunohistochemistry of paraffin-embedded human testis tissue using MBS7049224 at dilution of 1:100

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT5B. It may not necessarily be applicable to this product.

NCBI GI #	21618344

NCBI GeneID	6777
NCBI Accession #	NP_036580.2
UniProt Primary Accession #	P51692
UniProt Secondary Accession #	Q8WWS8
UniProt Related Accession #	P51692
GenBank Nucleotide #	NM_012448.3
NCBI Official Full Name	signal transducer and activator of transcription 5B
NCBI Official Synonym Full Names	signal transducer and activator of transcription 5B
NCBI Official Symbol	STAT5B
NCBI Official Synonym Symbols	STAT5
UniProt Protein Name	Signal transducer and activator of transcription 5B
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT5B
UniProt Entry Name	STA5B_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 5B
NCBI Summary for STAT5B	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. [provided by RefSeq, Jul 2008]
UniProt Comments for STAT5B	STAT5B: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases triggered by cytokines including IL2, IL3, GM-CSF, and various 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. Forms homo- or heterodimers that translocate into the nucleus where they regulate transcription. Protein type: DNA-binding; Oncoprotein; Transcription factor Chromosomal Location of Human Ortholog: 17q11.2 Cellular Component: cytoplasm; cytosol; nucleoplasm; nucleus Molecular Function: chromatin binding; glucocorticoid receptor binding; protein binding; protein dimerization activity; protein-tyrosine kinase activity; transcription factor activity Biological Process: 2-oxoglutarate metabolic process; allantoin metabolic process; cellular response to hormone stimulus; citrate metabolic process; creatine metabolic process; creatinine metabolic process; fatty acid metabolic process; isoleucine metabolic process; JAK-STAT cascade; oxaloacetate metabolic process; positive regulation of erythrocyte differentiation; positive regulation of transcription from RNA polymerase II promoter; regulation of multicellular organism growth; regulation of transcription from RNA polymerase II promoter; response to estradiol stimulus; succinate metabolic process; taurine metabolic process; valine metabolic process Disease: Growth Hormone Insensitivity With Immunodeficiency
Research Articles on STAT5B	**1.** STAT5 activation by EGF constitutes an important cascade for the regulation of cell proliferation and invasion in trophoblast cells.

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