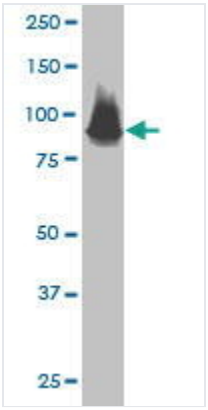
STAT5A Antibody – Mouse Monoclonal

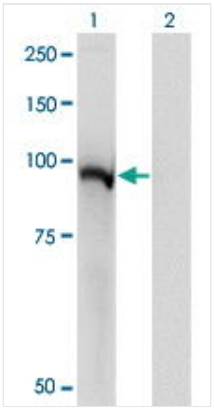
PRODUCT OVERVIEW

Product Name	STAT5A, Monoclonal Antibody
Full Product Name	STAT5A (Signal Transducer and Activator of Transcription 5A, STAT5) (AP)
Product Gene Name	anti-STAT5A antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1B12
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human STAT5A.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	90,647 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (40439565..40463961). Location: 17q11.2
OMIM	601511
3D Structure	ModBase 3D Structure for P42229
Immunogen	Partial recombinant corresponding to aa1-104 from human STAT5A (AAH27036) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAGWIQAQQLQGDALRQMQVLYGQHFPIEVRHYLAQWIESQPWDAIDLDNPQDRAQATQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQKTYD
Conjugate	AP
Product Categories/Family for anti-STAT5A antibody	Antibodies; Transcription Factors; STAT
Applications Tested/Suitable for anti-STAT5A antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-STAT5A antibody	Applications are based on unconjugated antibody.

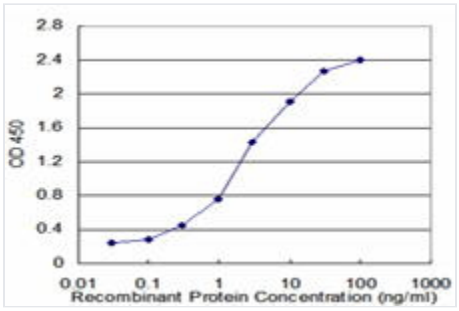
Related Product Information for anti-STAT5A antibody	Two highly related, but distinct STAT5 genes (STAT5a and STAT5b) were identified in mice. The aa sequences of Stat5a and Stat5b show approximat sequence similarity, and both proteins are co-expressed in most tissues of both virgin and lactating mice. However, differential accumulation of STAT5a STAT5b in mRNA has been reported for both muscle and mammary tissue. STAT5 has been shown to be the essential mediator of prolactin induced m protein gene activation. This antibody detects Stat5 a/b.
Other Notes	Small volumes of anti-STAT5A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece 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 add dry ice fee may apply.
Searchable Terms for STAT5A purchase	MBS6134018 is an antibody targeting STAT5A. Also known as STAT5A (Signal Transducer and Activator of Transcription 5A, STAT5) (AP). Reactive i Human. Host: Mouse.



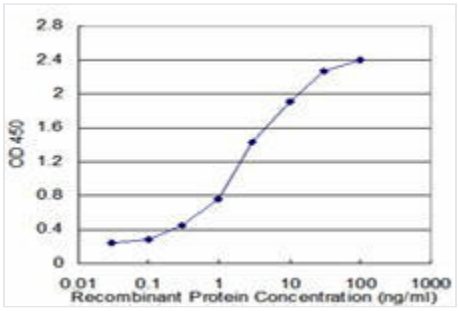
Western Blot (WB) of anti-STAT5A antibody
STAT5A monoclonal antibody, Western Blot analysis of STAT5A expression in k-562.



Western Blot (WB) of anti-STAT5A antibody
Western Blot analysis of STAT5A expression in transfected 293T cell line by STAT5A monoclonal antibody. Lane 1: STAT5A transfected lysate (Predicted MW: 90.6kD). Lane 2: Non-transfected lysate.



Testing Data of anti-STAT5A antibody
Detection limit for recombinant GST tagged STAT5A is ~0.1ng/ml as a capture antibody.



Testing Data of anti-STAT5A antibody
Proximity Ligation Analysis (PLA) of protein-protein interactions between STAT1 and STAT5A HeLa cells were stained with STAT1 rabbit purified polyclonal 1:1200 and STAT5A mouse monoclonal antibody 1:50. Signals were detected by 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT5A. It may not necessarily be applicable to this product.

NCBI GI #	20072533
NCBI GeneID	6776
NCBI Accession #	BC027036
NCBI Related Accession #	AAH27036
UniProt Primary Accession #	P42229
UniProt Related Accession #	P42229
NCBI Official Full Name	Homo sapiens signal transducer and activator of transcription 5A, mRNA

NCBI Official Synonym Full Names	signal transducer and activator of transcription 5A
NCBI Official Symbol	STAT5A
NCBI Official Synonym Symbols	MGF; STAT5
UniProt Protein Name	Signal transducer and activator of transcription 5A
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT5A
UniProt Synonym Gene Names	STAT5
UniProt Entry Name	STA5A_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 5A
UniProt Comments for STAT5A	STAT5A: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases downstream of many cytokines and growth-factor receptors. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 fusion protein is essential for the tumorigenesis. Induces the expression of BCL2L1/BCL-X(L) in the mouse, suggesting an antiapoptotic function of this protein. Forms homo- or heterodimers that translocate into the nucleus where they regulate transcription. Two alternatively spliced isoforms have been described. Protein type: Motility/polarity/chemotaxis; Oncoprotein; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 17q11.2 Cellular Component: nucleoplasm; cytosol Molecular Function: signal transducer activity; protein binding; transcription factor activity Biological Process: lactation; succinate metabolic process; peptidyl-tyrosine phosphorylation; oxaloacetate metabolic process; positive regulation of interleukin-2 biosynthetic process; T cell differentiation in the thymus; female pregnancy; positive regulation of multicellular organism growth; fatty acid metabolic process; positive regulation of mitotic cell cycle; positive regulation of activated T cell proliferation; 2-oxoglutarate metabolic process; positive regulation of natural killer cell differentiation; sequestering of lipid; negative regulation of mast cell apoptosis; natural killer cell differentiation; allantoin metabolic process; luteinization; development of secondary male sexual characteristics; regulation of steroid metabolic process; creatinine metabolic process; T cell homeostasis; positive regulation of gamma-delta T cell differentiation; Peyer's patch development; isoleucine metabolic process; negative regulation of erythrocyte differentiation; transcription, DNA-dependent; valine metabolic process; citrate metabolic process; regulation of multicellular organism growth; development of secondary female sexual characteristics; JAK-STAT cascade; positive regulation of natural killer cell mediated cytotoxicity; creatine metabolic process; regulation of transcription from RNA polymerase II promoter; regulation of epithelial cell differentiation; positive regulation of B cell differentiation; positive regulation of transcription from RNA polymerase II promoter; taurine metabolic process; positive regulation of inflammatory response
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