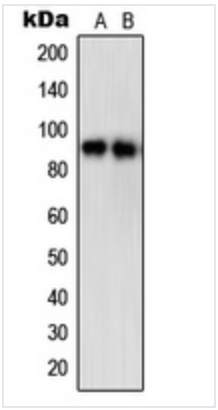
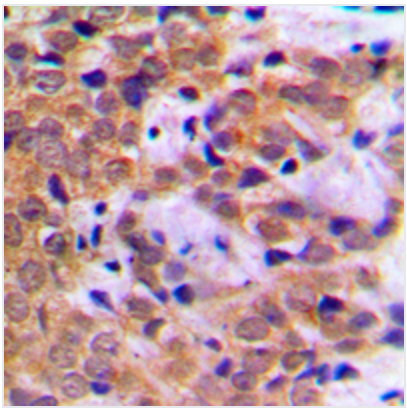
STAT5A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

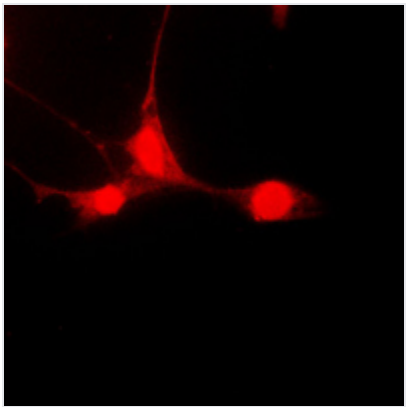
Product Name	STAT5A, Polyclonal Antibody
Full Product Name	Rabbit anti-STAT5A (pS780) Antibody
Product Gene Name	anti-STAT5A antibody
Product Synonym Names	STAT5; Signal transducer and activator of transcription 5A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Monkey
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
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	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human STAT5A. The exact sequence is proprietary.
Product Categories/Family for anti-STAT5A antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-STAT5A antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochemistry (IC), Immunoprecipitation (IP)
Application Notes for anti-STAT5A antibody	WB: 1:500-1:1000 IHC: 1:100-1:200 IF:IC: 1:100-1:500 IP: 1:10-1:100
Related Product Information for anti-STAT5A antibody	MBS4508596 is an antibody targeting STAT5A. Also known as Rabbit anti-STAT5A (pS780) Antibody. Reactive in Human, Monkey. Host: Rabbit.
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 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.



Western Blot (WB) of anti-STAT5A antibody
Western blot analysis of STAT5A (pS780) expression in A431 EGF-treated (A), HepG2 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-STAT5A antibody
Immunohistochemical analysis of STAT5A (pS780) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-STAT5A antibody
Immunofluorescent analysis of STAT5A (pS780) staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

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

NCBI GI #	21618342
NCBI GeneID	6776
NCBI Accession #	NP_003143.2
UniProt Primary Accession #	P42229
UniProt Related Accession #	P42229
GenBank Nucleotide #	NM_003152.3
NCBI Official Full Name	signal transducer and activator of transcription 5A
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
NCBI Summary for STAT5A	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 is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. [provided by RefSeq, Jul 2008]
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
Research Articles on STAT5A	**1.** Fyn regulates the activity of the adipogenic transcription factor signal transducer and activator of transcription 5a (STAT5a) through enhancing its interaction with the GTPase phosphoinositide 3-kinase enhancer A (PIKE-A).
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