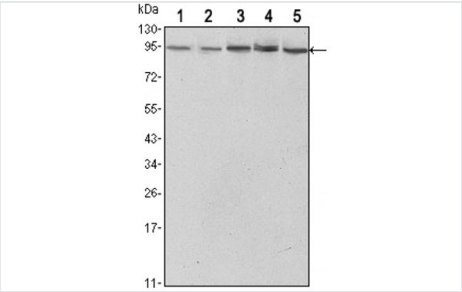
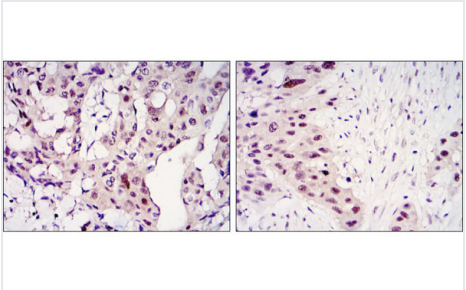
STAT3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	STAT3, Monoclonal Antibody
Full Product Name	STAT3 antibody
Product Gene Name	anti-STAT3 antibody
Product Synonym Names	Monoclonal STAT3; Anti-STAT3; STAT 3; STAT-3; APRF; FLJ20882; STAT3; Signal transducer and activator of transcription 3; MGC16063
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3B5
Host	Mouse
Form/Format	Supplied as a liquid in ascitic fluid containing 0.03% sodium azide.
Concentration	1.0 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	5,376 Da
3D Structure	ModBase 3D Structure for Q9BXH2
Cross-Reactivity	Human, Mouse, Monkey
Immunogen	STAT3 antibody was raised in Mouse using a purified recombinant fragment of human STAT3 expressed in E Coli as the immunogen.
Product Categories/Family for anti-STAT3 antibody	Cell Biology
Applications Tested/Suitable for anti-STAT3 antibody	ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-STAT3 antibody	ELISA: 1:10,000 IF: 1:200-1:1000 IHC: 1:200-1:1000 WB: 1:500-1:2000
Related Product Information for anti-STAT3 antibody	MBS533565 is an antibody targeting STAT3. Also known as STAT3 antibody. Host: Mouse. Mouse monoclonal STAT3 antibody
Other Notes	Small volumes of anti-STAT3 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-STAT3 antibody
Western Blot showing STAT3 antibody used against Hela (1),NIH/3T3 (2), Jurkat (3), PC-12 (4) and COS7 (5) cell lysate.



Immunohistochemistry (IHC) of anti-STAT3 antibody
Immunohistochemical analysis of paraffin-embedded mammary cancer tissues (left) and lung cancer tissues (right) using STAT3 antibody with DAB staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT3. It may not necessarily be applicable to this product.

NCBI GI #	13272532
NCBI GeneID	6774
NCBI Accession #	AAK17196.1
UniProt Primary Accession #	Q9BXH2
UniProt Related Accession #	P40763
NCBI Official Full Name	STAT3, partial
NCBI Official Synonym Full Names	signal transducer and activator of transcription 3 (acute-phase response factor)
NCBI Official Symbol	STAT3
NCBI Official Synonym Symbols	APRF; HIES; ADMIO
UniProt Protein Name	STAT3
UniProt Synonym Protein Names	STAT3
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT3
UniProt Entry Name	Q9BXH2_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 3
NCBI Summary for STAT3	The protein encoded by this gene is a member of the STAT protein family. 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 through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

UniProt Comments for STAT3	STAT3 iso2: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases downstream of many cytokines and growth-factor receptors. Constitutively active in a number of human tumors. Forms homo- or heterodimers that translocate into the nucleus where they regulate transcription. Two alternatively spliced isoforms have been described. Protein type: DNA-binding; Transcription factor; Motility/polarity/chemotaxis; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 17q21.31 Cellular Component: nucleoplasm; cytoplasm; mitochondrial inner membrane; plasma membrane; nucleus; cytosol Molecular Function: protein dimerization activity; protein binding; signal transducer activity; ligand-dependent nuclear receptor activity; DNA binding; sequence-specific DNA binding; transcription factor activity; protein phosphatase binding; transcription factor binding; protein kinase binding; glucocorticoid receptor binding; CCR5 chemokine receptor binding Biological Process: transcription from RNA polymerase II promoter; viral reproduction; nerve growth factor receptor signaling pathway; somatic stem cell maintenance; positive regulation of transcription, DNA-dependent; radial glial cell differentiation; thermoregulation; negative regulation of transcription from RNA polymerase II promoter; glucose homeostasis; signal transduction; response to estradiol stimulus; negative regulation of cell proliferation; regulation of transcription, DNA-dependent; astrocyte differentiation; protein import into nucleus; acute-phase response; negative regulation of glycolysis; positive regulation of Notch signaling pathway; response to drug; nervous system development; intracellular receptor-mediated signaling pathway; eating behavior; cytokine and chemokine mediated signaling pathway; regulation of multicellular organism growth; JAK-STAT cascade; cellular response to hormone stimulus; regulation of transcription from RNA polymerase II promoter; cell proliferation; response to ethanol; sexual reproduction; positive regulation of transcription from RNA polymerase II promoter; cell motility; eye photoreceptor cell differentiation; phosphorylation
Research Articles on STAT3	**1.** Targeting the CXCL12-CXCR4/JAK2/STAT3 signaling pathway may be a potential therapeutic strategy for the treatment of breast cancer.
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