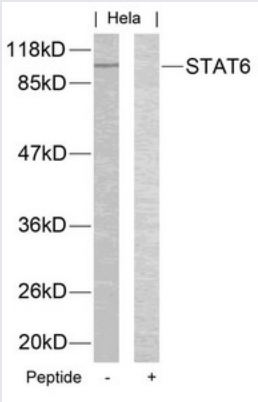
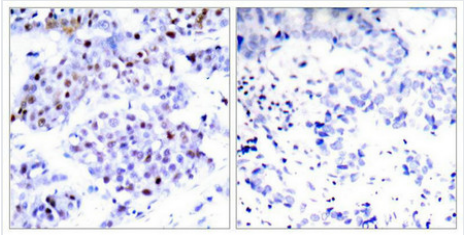
STAT6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	STAT6, Polyclonal Antibody
Full Product Name	STAT6 (Ab-645) Antibody
Product Gene Name	anti-STAT6 antibody
Product Synonym Names	IL-4-STAT; STAT6B; STAT6C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; Supplied at 1.0mg/mL In Phosphate Buffered Saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were Purified by affinity-chromatography using epitope-specific peptide.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	94,135 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (57489187..57505196, complement). Location: 12q13
OMIM	601512
3D Structure	ModBase 3D Structure for P42226
Immunogen	Peptide sequence around aa.643~647 (P-A-T-I-K) derived from Human STAT6.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-STAT6 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-STAT6 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-STAT6 antibody	WB: 1:500-1:1000 IHC: 1:50-1:200
Related Product Information for anti-STAT6 antibody	MBS7131901 is an antibody targeting STAT6. Also known as STAT6 (Ab-645) Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-STAT6 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-STAT6 antibody
Western blot analysis of extracts from Hela cells using STAT6(Ab-645) Antibody and the same antibody preincubated with blocking peptide.



Immunohistochemistry (IHC) of anti-STAT6 antibody
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT6(Ab-645) Antibody(left) or the same antibody preincubated with blocking peptide(right).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT6. It may not necessarily be applicable to this product.

NCBI GI #	296010864
NCBI GeneID	6778
NCBI Accession #	NP_001171549.1
UniProt Primary Accession #	P42226
UniProt Secondary Accession #	Q5FBW5; Q71UP4; A8K316; B7ZA27; F5GXI9
UniProt Related Accession #	P42226
GenBank Nucleotide #	NM_001178078.1
NCBI Official Full Name	signal transducer and activator of transcription 6 isoform 1
NCBI Official Synonym Full Names	signal transducer and activator of transcription 6, interleukin-4 induced
NCBI Official Symbol	STAT6
NCBI Official Synonym Symbols	STAT6B; STAT6C; D12S1644; IL-4-STAT
UniProt Protein Name	Signal transducer and activator of transcription 6
UniProt Synonym Protein Names	IL-4 Stat
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT6
UniProt Entry Name	STAT6_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 6; STAT, interleukin4-induced; transcription factor IL-4 STAT
NCBI Summary for STAT6	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 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

UniProt Comments for STAT6	STAT6: transcription factor of the STAT family. Plays a central role in IL4-mediated biological responses. Induces the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. May function in the differentiation of T helper 2 cells and class switch of immunoglobulins. Forms homo- or heterodimers that translocate into the nucleus where they regulate transcription. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 12q13 Cellular Component: nucleoplasm; nuclear chromatin; cytoplasm; cytosol; lipid raft Molecular Function: identical protein binding; signal transducer activity; protein binding; transcription factor activity; protein phosphatase binding Biological Process: regulation of transcription from RNA polymerase II promoter; T-helper 1 cell lineage commitment; negative regulation of T-helper 2 type immune response; transcription, DNA-dependent; positive regulation of interferon type I production; innate immune response; mammary gland epithelial cell proliferation; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; signal transduction; positive regulation of isotype switching to IgE isotypes; regulation of cell proliferation
Research Articles on STAT6	**1.** PPIs, in concentrations achieved in blood with conventional dosing, significantly inhibit IL-4-stimulated eotaxin-3 expression in EoE esophageal cells and block STAT6 binding to the promoter.
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