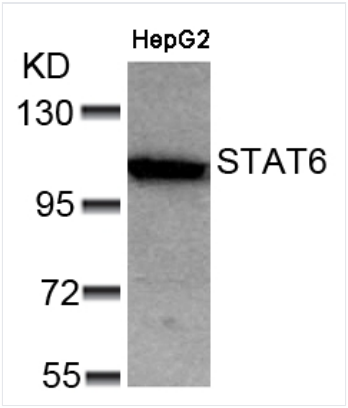
STAT6 Antibody – Rabbit Polyclonal

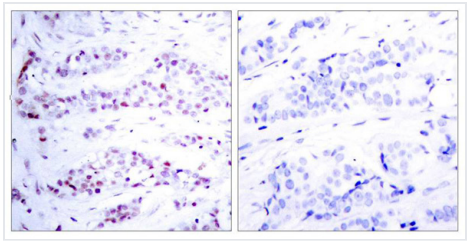
PRODUCT OVERVIEW

Product Name	STAT6, Polyclonal Antibody
Full Product Name	STAT6 (Ab-641) Antibody
Product Gene Name	anti-STAT6 antibody
Product Synonym Names	IL-4 Stat
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	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.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total STAT6 protein.
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.
Molecular Weight	81,748 Da
OMIM	601512
3D Structure	ModBase 3D Structure for P42226
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.639~643 (R-G-Y-V-P) derived from Human STAT6.
Target Name	STAT6
Product Categories/Family for anti-STAT6 antibody	Total protein Ab
Applications Tested/Suitable for anti-STAT6 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-STAT6 antibody	Western blotting: 1:500~1:1000 Immunohistochemistry: 1:50~1:100
Related Product Information for anti-STAT6 antibody	STAT6 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. By screening an embryonic lung fibroblast cDNA library with a wildtype STAT6 probe, 2 variant cDNAs were identified, which were termed STAT6B and STAT6C, encoding an N-terminal 110-amino acid truncation and a 27-amino acid deletion in the SH2 domain, respectively. All the three variants are ubiquitously expressed with STAT6B expression greatest in spleen and STAT6C expression greatest in lung. STAT6B resembles an attenuated STAT6, but that STAT6C inhibits IL-4-mediated mitogenesis and cell surface antigen expression, and is not tyrosine phosphorylated
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.

Searchable Terms for STAT6 purchase	MBS9411812 is an antibody targeting STAT6. Also known as STAT6 (Ab-641) Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-STAT6 antibody
Western blot analysis of extracts from HepG2 cells using STAT6(Ab-641) Antibody.



Immunohistochemistry (IHC) of anti-STAT6 antibody
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT6(Ab-641) 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
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: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 12q13 Cellular Component: nucleoplasm; nuclear chromatin; cytoplasm; cytosol; lipid raft Molecular Function: identical protein binding; protein binding; signal transducer activity; protein phosphatase binding; transcription factor activity 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.** TRAIL induces RANKL expression through a STAT-6 dependent transcriptional regulatory mechanism in bone marrow stromal/preosteoblast cells.
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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/stat6/9411812