STAT4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	STAT4, Polyclonal Antibody
Full Product Name	STAT4 Rabbit pAb
Product Gene Name	anti-STAT4 antibody
Product Synonym Names	Signal transducer and activator of transcription 4; Stat-4; Stat 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	86kDa
OMIM	180300
3D Structure	ModBase 3D Structure for Q14765
Immunogen	A synthesized peptide derived from human STAT4
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-STAT4 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP), Flow Cytometry (FC/FACS)
Application Notes for anti-STAT4 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 ICC: 1:50-1:200 IP: 1:20 FC/FACS: 1:50
Related Product Information for anti-STAT4 antibody	Receptor-mediated tyrosine phosphorylation of Jak family members triggers phosphorylation of Stat proteins, resulting in their nuclear translocation, binding to specific DNA elements, and subsequent activation of transcription.
Other Notes	Small volumes of anti-STAT4 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 STAT4 purchase	MBS8542884 is an antibody targeting STAT4. Also known as STAT4 Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT4. It may not necessarily be applicable to this product.

NCBI GI #	345110660
NCBI GeneID	6775

NCBI Accession #	NP_001230764.1
UniProt Primary Accession #	Q14765
UniProt Related Accession #	Q14765
GenBank Nucleotide #	NP_001230764.1
NCBI Official Full Name	signal transducer and activator of transcription 4
NCBI Official Synonym Full Names	signal transducer and activator of transcription 4
NCBI Official Symbol	STAT4
NCBI Official Synonym Symbols	SLEB11
UniProt Protein Name	Signal transducer and activator of transcription 4
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT4
UniProt Entry Name	STAT4_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 4
NCBI Summary for STAT4	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 essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Aug 2011]
UniProt Comments for STAT4	STAT4: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases downstream of many cytokines and growth-factor receptors. Essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 2q32.2-q32.3 Cellular Component: nucleoplasm; cytoplasm Molecular Function: signal transducer activity; protein binding; sequence-specific DNA binding; transcription factor activity Biological Process: cell proliferation; transcription, DNA-dependent; cytokine and chemokine mediated signaling pathway; positive regulation of transcription from RNA polymerase II promoter; JAK-STAT cascade; protein amino acid phosphorylation Disease: Systemic Lupus Erythematosus, Susceptibility To, 11
Research Articles on STAT4	**1.** Study revealed that STAT4 is involved in M2 macrophages polarization and that mir-320a is a new modulator of M2 switch through down-regulation of STAT4. mir-320a can be transferred from polymorphonuclear leukocytes, isolated from subjects at high-risk to develop lung cancer, to macrophages inducing an M2 polarization and may be involved in lung cancer development.
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