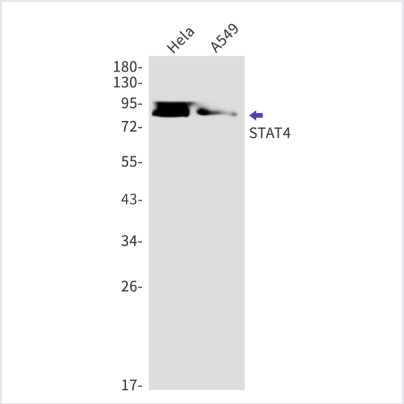
STAT4 Antibody – Rabbit Monoclonal

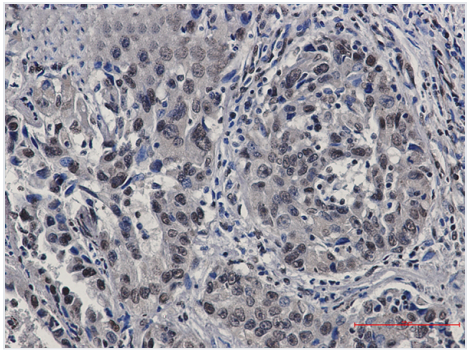
PRODUCT OVERVIEW

Product Name	STAT4, Monoclonal Antibody
Full Product Name	STAT4 Rabbit mAb
Product Gene Name	anti-STAT4 antibody
Product Synonym Names	SLEB11
Clonality	Monoclonal
Isotype	IgG
Clone Number	S02-1C1
Host	Recombinant Rabbit
Species Reactivity	Human
Form/Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Purity/Purification	Affinity Purified
Concentration	0.3mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	85,941 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (191894302..192016322, complement). Location: 2q32.2-q32.3
OMIM	180300
3D Structure	ModBase 3D Structure for Q14765
Immunogen	A synthetic peptide of human STAT4
Conjugation	Unconjugated
Modification	Unmodification
Product Categories/Family for anti-STAT4 antibody	Primary Antibody
Applications Tested/Suitable for anti-STAT4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-STAT4 antibody	WB: 1/1000 IHC: 1/50
Related Product Information for anti-STAT4 antibody	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]
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	MBS9467579 is an antibody targeting STAT4. Also known as STAT4 Rabbit mAb. Reactive in Human. Host: Recombinant Rabbit.



Western Blot (WB) of anti-STAT4 antibody
Western blot detection of STAT4 in Hela,A549 cell lysates using STAT4 Rabbit mAb(1:1000 diluted).Predicted band size:86kDa.Observed band size:86kDa.



Immunohistochemistry (IHC) of anti-STAT4 antibody
Immunohistochemistry of STAT4 in paraffin-embedded Human lung cancer tissue using STAT4 Rabbit mAb at dilution 1/50

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 Secondary Accession #	Q96NZ6
UniProt Related Accession #	Q14765
GenBank Nucleotide #	NM_001243835.1
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

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.** Investigation into the signaling mechanism suggested that phosphorylation of STAT-4 in response to IL-12 was sustained for a longer duration in aged CD4+ T cells as compared to CD4+ T cells from young subjects
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/stat4/9467579