Stat 4 (STAT4) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Stat 4 (STAT4), Polyclonal Antibody
Full Product Name	Stat 4, phosphorylated (Tyr693) (Signal Transducer And Activator Of Transcription 4)
Product Gene Name	anti-STAT4 antibody
Product Synonym Names	Anti -Stat 4, phosphorylated (Tyr693) (Signal Transducer And Activator Of Transcription 4)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human STAT4 when phosphorylated at Tyr693.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	85,941 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (191894306..192015925, complement). Location: 2q32.2-q32.3
OMIM	180300
3D Structure	ModBase 3D Structure for Q14765
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Tyr693 of human STAT4 (KLH).
Product Categories/Family for anti-STAT4 antibody	Antibodies; Abs to Transcription Factors; STAT
Applications Tested/Suitable for anti-STAT4 antibody	ELISA (EL/EIA), Immunohistochemistry (IHC)
Application Notes for anti-STAT4 antibody	Suitable for use in ELISA and Immunohistochemistry. Dilution: ELISA: 1:1,000 Immunohistochemistry: 1:50-1:100
Related Product Information for anti-STAT4 antibody	STAT4 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. STAT4 is essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells.
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	MBS624927 is an antibody targeting STAT4. Also known as Stat 4, phosphorylated (Tyr693) (Signal Transducer And Activator Of Transcription 4). 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 #	4507255
NCBI GeneID	6775
NCBI Accession #	NP_003142.1
UniProt Primary Accession #	Q14765
UniProt Secondary Accession #	Q96NZ6
UniProt Related Accession #	Q14765; Q53RU2; Q53S87; Q59GR6
GenBank Nucleotide #	NM_003151.2
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; OTTHUMP00000163553; OTTHUMP00000205847
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. [provided by RefSeq]
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: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 2q32.2-q32.3 Cellular Component: nucleoplasm; cytoplasm Molecular Function: protein binding; signal transducer activity; 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.** results support involvement of the STAT4 gene in the genetic susceptibility to rheumatoid arthritis but not to autoimmune thyroid diseases in the Tunisian population
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/polyclonal-human-antibody/stat-4/624927