STAT2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	STAT2, Blocking Peptide
Full Product Name	STAT2 Blocking Peptide
Product Gene Name	STAT2 blocking peptide
Product Synonym Names	Homo sapiens interferon alpha induced transcriptional activator; interferon alpha induced transcriptional activator; ISGF 3; ISGF3; MGC59816; P113; signal transducer and activator of transcription 2 113kD; Signal transducer and activator of transcription 2; STAT113; Stat2; STAT2_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	STAT2 peptide (MBS9617464) is used for blocking the activity of STAT2 antibody (MBS9601911)
Molecular Weight	97,916 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (56735381..56754037, complement). Location: 12q13.3
OMIM	600556
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for STAT2 blocking peptide	Blocking/Control
Related Product Information for STAT2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of STAT2 blocking peptide 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 STAT2 purchase	MBS9617464 is a blocking peptide targeting STAT2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT2. It may not necessarily be applicable to this product.

NCBI GI #	4885615
NCBI GeneID	6773
NCBI Accession #	NP_005410.1
UniProt Primary Accession #	P52630

UniProt Secondary Accession #	Q16430; Q16431; Q9UDL4; B4DLC7; G3V2M6
UniProt Related Accession #	P52630
GenBank Nucleotide #	NM_005419.3
NCBI Official Full Name	signal transducer and activator of transcription 2 isoform 1
NCBI Official Synonym Full Names	signal transducer and activator of transcription 2, 113kDa
NCBI Official Symbol	STAT2
NCBI Official Synonym Symbols	P113; ISGF-3; STAT113
UniProt Protein Name	Signal transducer and activator of transcription 2
UniProt Synonym Protein Names	p113
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT2
UniProt Entry Name	STAT2_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 2; interferon alpha induced transcriptional activator
NCBI Summary for STAT2	The protein encoded by this gene is a member of the STAT protein family. 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. In response to interferon (IFN), this protein forms a complex with STAT1 and IFN regulatory factor family protein p48 (ISGF3G), in which this protein acts as a transactivator, but lacks the ability to bind DNA directly. Transcription adaptor P300/CBP (EP300/CREBBP) has been shown to interact specifically with this protein, which is thought to be involved in the process of blocking IFN-alpha response by adenovirus. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]
UniProt Comments for STAT2	STAT2: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases downstream of many cytokines and growth-factor receptors. Binds to the IFN-stimulated response element (ISRE) and to the Gas element. This multiprotein transcription factor is termed ISGF3. Two alternatively spliced isoforms have been described. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 12q13.3 Cellular Component: nucleoplasm; cytoplasm; plasma membrane; cytosol Molecular Function: identical protein binding; signal transducer activity; protein binding; DNA binding; transcription factor activity Biological Process: regulation of transcription from RNA polymerase II promoter; viral reproduction; transcription, DNA-dependent; cytokine and chemokine mediated signaling pathway; JAK-STAT cascade; defense response to virus
Research Articles on STAT2	**1.** Sequencing of genomic DNA and RNA revealed a homozygous mutation in intron 4 of STAT2 that prevented correct splicing in patient cells
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/blocking-peptide/stat2/9617464