STAT4 Blocking Peptide

PRODUCT OVERVIEW

Product Name	STAT4, Blocking Peptide
Full Product Name	STAT4 Peptide
Product Gene Name	STAT4 blocking peptide
Product Synonym Gene Name	SLEB11
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	STAT4 peptide (MBS3226498) is used for blocking the activity of STAT4 antibody (MBS3201483)
Molecular Weight	86kDa
OMIM	180300
Product Categories/Family for STAT4 blocking peptide	Peptide
Applications Tested/Suitable for STAT4 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for STAT4 blocking peptide	This is a synthetic peptide designed for use in combination with anti-STAT4 antibody made Target Description: 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. This protein is essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells.
Other Notes	Small volumes of STAT4 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 STAT4 purchase	MBS3226498 is a blocking peptide targeting STAT4. Also known as STAT4 Peptide.

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
UniProt Primary Accession #	Q14765
UniProt Related Accession #	Q14765
GenBank Nucleotide #	NM_003151
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 provides evidence that polymorphisms of rs7574865, rs3024921, rs6752770, rs7601754 and rs10168266 in STAT4 were significantly associated with the risk of primary biliary cholangitis.
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