STAT6 Blocking Peptide

PRODUCT OVERVIEW

Product Name	STAT6, Blocking Peptide
Full Product Name	STAT6 Peptide
Product Gene Name	STAT6 blocking peptide
Product Synonym Gene Name	D12S1644; IL-4-STAT; STAT6B; STAT6C
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	STAT6 peptide (MBS3225263) is used for blocking the activity of STAT6 antibody (MBS3200332)
Molecular Weight	94kDa
OMIM	601512
Product Categories/Family for STAT6 blocking peptide	Peptide
Applications Tested/Suitable for STAT6 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for STAT6 blocking peptide	This is a synthetic peptide designed for use in combination with anti-STAT6 antibody made Target Description: Full-length human STAR6 (NP_003144) was expressed in E.coli as inclusion body and purified after protein refolding for mouse immunization. Clone 5B1 shows excellent western blot detection of endogenous STAT6 using ACHN cell lysate.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 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Other Notes	Small volumes of STAT6 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 STAT6 purchase	MBS3225263 is a blocking peptide targeting STAT6. Also known as STAT6 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT6. It may not necessarily be applicable to this product.

NCBI GI #	23397678
NCBI GeneID	6778
NCBI Accession #	NP_003144
UniProt Primary Accession #	P42226
UniProt Related Accession #	P42226
GenBank Nucleotide #	NM_003153

NCBI Official Full Name	signal transducer and activator of transcription 6 isoform 1
NCBI Official Synonym Full Names	signal transducer and activator of transcription 6
NCBI Official Symbol	STAT6
NCBI Official Synonym Symbols	STAT6B; STAT6C; D12S1644; IL-4-STAT
UniProt Protein Name	Signal transducer and activator of transcription 6
UniProt Synonym Protein Names	IL-4 Stat
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT6
UniProt Entry Name	STAT6_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 6
NCBI Summary for STAT6	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 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]
UniProt Comments for STAT6	STAT6: transcription factor of the STAT family. Plays a central role in IL4-mediated biological responses. Induces the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. May function in the differentiation of T helper 2 cells and class switch of immunoglobulins. Forms homo- or heterodimers that translocate into the nucleus where they regulate transcription. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 12q13 Cellular Component: nucleoplasm; nuclear chromatin; cytoplasm; cytosol; lipid raft Molecular Function: identical protein binding; signal transducer activity; protein binding; transcription factor activity; protein phosphatase binding Biological Process: regulation of transcription from RNA polymerase II promoter; T-helper 1 cell lineage commitment; negative regulation of T-helper 2 type immune response; transcription, DNA-dependent; positive regulation of interferon type I production; innate immune response; mammary gland epithelial cell proliferation; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; signal transduction; positive regulation of isotype switching to IgE isotypes; regulation of cell proliferation
Research Articles on STAT6	**1.** the degradation of STAT6 is induced and required for the lytic activation of human herpesviruses and is association with the increased ubiquitylated form of TRIML2
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