IRF4 Blocking Peptide

PRODUCT OVERVIEW

Product Name	IRF4, Blocking Peptide
Full Product Name	IRF4 Peptide
Product Gene Name	IRF4 blocking peptide
Product Synonym Gene Name	LSIRF; MUM1; NF-EM5
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	IRF4 peptide (MBS3228900) is used for blocking the activity of IRF4 antibody (MBS3203931)
Molecular Weight	52kDa
OMIM	254500
Product Categories/Family for IRF4 blocking peptide	Peptide
Applications Tested/Suitable for IRF4 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for IRF4 blocking peptide	This is a synthetic peptide designed for use in combination with anti-IRF4 antibody made Target Description: IFN regulatory factor (IRF)-4 is a lymphoid/myeloid-restricted member of the IRF transcription factor family that plays an essential role in the homeostasis and function of mature lymphocytes. IRF-4 expression is tightly regulated in resting primary T cells and is transiently induced at the mRNA and protein levels after activation by Ag-mimetic stimuli such as TCR cross-linking or treatment with phorbol ester and calcium ionophore (PMA/ionomycin).
Other Notes	Small volumes of IRF4 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 IRF4 purchase	MBS3228900 is a blocking peptide targeting IRF4. Also known as IRF4 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRF4. It may not necessarily be applicable to this product.

NCBI GI #	167555104
NCBI GeneID	3662
NCBI Accession #	NP_002451
UniProt Primary Accession #	Q15306
UniProt Related Accession #	Q15306
GenBank Nucleotide #	NM_002460
NCBI Official Synonym Full Names	interferon regulatory factor 4
NCBI Official Symbol	IRF4
NCBI Official Synonym Symbols	MUM1; LSIRF; SHEP8; NF-EM5

UniProt Protein Name	Interferon regulatory factor 4
UniProt Synonym Protein Names	Lymphocyte-specific interferon regulatory factor; LSIRF; Multiple myeloma oncogene 1; NF-EM5
Protein Family	Interferon regulatory factor
UniProt Gene Name	IRF4
UniProt Synonym Gene Names	MUM1; IRF-4; LSIRF
UniProt Entry Name	IRF4_HUMAN
NCBI Protein Information	interferon regulatory factor 4
NCBI Summary for IRF4	The protein encoded by this gene belongs to the IRF (interferon regulatory factor) family of transcription factors, characterized by an unique tryptophan pentad repeat DNA-binding domain. The IRFs are important in the regulation of interferons in response to infection by virus, and in the regulation of interferon-inducible genes. This family member is lymphocyte specific and negatively regulates Toll-like-receptor (TLR) signaling that is central to the activation of innate and adaptive immune systems. A chromosomal translocation involving this gene and the IgH locus, t(6;14)(p25;q32), may be a cause of multiple myeloma. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2010]
UniProt Comments for IRF4	IRF4: Transcriptional activator. Binds to the interferon- stimulated response element (ISRE) of the MHC class I promoter. Binds the immunoglobulin lambda light chain enhancer, together with PU.1. Probably plays a role in ISRE-targeted signal transduction mechanisms specific to lymphoid cells. Interacts with SPIB and DEF6. Not induced by interferons. Lymphoid cells. Belongs to the IRF family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding; Oncoprotein Chromosomal Location of Human Ortholog: 6p25-p23 Cellular Component: nucleoplasm; membrane; cytoplasm; nucleus; cytosol Molecular Function: protein binding; sequence-specific DNA binding; protein-lysine N-methyltransferase activity; transcription factor binding; transcription factor activity Biological Process: T cell activation; transcription, DNA-dependent; cytokine and chemokine mediated signaling pathway; positive regulation of interleukin-2 biosynthetic process; positive regulation of transcription, DNA-dependent; regulation of T-helper cell differentiation; myeloid dendritic cell differentiation; defense response to protozoan; peptidyl-lysine methylation; positive regulation of interleukin-4 biosynthetic process; positive regulation of interleukin-10 biosynthetic process; positive regulation of interleukin-13 biosynthetic process; negative regulation of toll-like receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; positive regulation of DNA binding Disease: Skin/hair/eye Pigmentation, Variation In, 8
Research Articles on IRF4	**1.** IRF4 polymorphism is associated with rheumatoid arthritis.
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