FOXP3 Blocking Peptide

PRODUCT OVERVIEW

Product Name	FOXP3, Blocking Peptide
Full Product Name	FOXP3 Peptide
Product Gene Name	FOXP3 blocking peptide
Product Synonym Gene Name	JM2; AIID; IPEX; PIDX; XPID; DIETER
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	FOXP3 peptide (MBS3226162) is used for blocking the activity of FOXP3 antibody (MBS3201135)
Molecular Weight	47kDa
OMIM	300292
Product Categories/Family for FOXP3 blocking peptide	Peptide
Applications Tested/Suitable for FOXP3 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for FOXP3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-FOXP3 antibody made Target Description: Forkhead box protein P3 (FOXP3, Scurfin, Zinc finger protein JM2) encodes a novel member of the forkhead family of transcription factors. It presumably represses transcription, playing a paramount role in determining the amplitude of the response of CD4 T cells to activation
Other Notes	Small volumes of FOXP3 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 FOXP3 purchase	MBS3226162 is a blocking peptide targeting FOXP3. Also known as FOXP3 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXP3. It may not necessarily be applicable to this product.

NCBI GI #	31982943
NCBI GeneID	50943
NCBI Accession #	NP_054728
UniProt Primary Accession #	Q9BZS1
UniProt Related Accession #	Q9BZS1
GenBank Nucleotide #	NM_014009
NCBI Official Full Name	forkhead box protein P3 isoform a
NCBI Official Synonym Full Names	forkhead box P3
NCBI Official Symbol	FOXP3
NCBI Official Synonym Symbols	JM2; AIID; IPEX; PIDX; XPID; DIETER

UniProt Protein Name	Forkhead box protein P3
UniProt Synonym Protein Names	Scurfin
Protein Family	Forkhead box protein
UniProt Gene Name	FOXP3
UniProt Synonym Gene Names	IPEX
UniProt Entry Name	FOXP3_HUMAN
NCBI Protein Information	forkhead box protein P3
NCBI Summary for FOXP3	The protein encoded by this gene is a member of the forkhead/winged-helix family of transcriptional regulators. Defects in this gene are the cause of immunodeficiency polyendocrinopathy, enteropathy, X-linked syndrome (IPEX), also known as X-linked autoimmunity-immunodeficiency syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for FOXP3	FOXP3: Probable transcription factor. Plays a critical role in the control of immune response. Interacts with IKZF3. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; C2H2-type zinc finger protein; Cell cycle regulation; DNA-binding Chromosomal Location of Human Ortholog: Xp11.23 Cellular Component: protein complex; cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; histone acetyltransferase binding; NF-kappaB binding; protein binding; NFAT protein binding; protein homodimerization activity; sequence-specific DNA binding; histone deacetylase binding; metal ion binding; transcription corepressor activity; transcription factor activity Biological Process: negative regulation of interleukin-10 production; positive regulation of transcription, DNA-dependent; negative regulation of cytokine secretion; myeloid cell homeostasis; T cell receptor signaling pathway; negative regulation of interleukin-2 production; negative regulation of interleukin-6 production; T cell homeostasis; tolerance induction to self antigen; response to virus; negative regulation of transcription factor activity; negative regulation of immune response; cytokine production; negative regulation of T cell cytokine production; positive regulation of peripheral T cell tolerance induction; inhibition of NF-kappaB transcription factor; regulation of T cell anergy; negative regulation of interleukin-5 production; positive regulation of transcription from RNA polymerase II promoter; inhibition of CREB transcription factor; negative regulation of transcription, DNA-dependent; negative regulation of cytokine biosynthetic process; transcription from RNA polymerase II promoter; negative regulation of interleukin-4 production; T cell activation; negative regulation of activated T cell proliferation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of histone acetylation; negative regulation of interferon-gamma biosynthetic process; positive regulation of interleukin-4 production; negative regulation of cell proliferation; CD4-positive, CD25-positive, alpha-beta regulatory T cell lineage commitment; negative regulation of isotype switching to IgE isotypes; negative regulation of T cell proliferation; B cell homeostasis; regulation of transcription, DNA-dependent; negative regulation of interferon-gamma production; regulation of isotype switching to IgG isotypes; positive regulation of T cell anergy; positive regulation of transforming growth factor-beta1 production; negative regulation of chronic inflammatory response; negative regulation of histone deacetylation; T cell mediated immunity; positive regulation of immature T cell proliferation in the thymus; negative regulation of tumor necrosis factor production; chromatin remodeling; negative regulation of interleukin-17 production; positive regulation of CD4-positive, CD25-positive, alpha-beta regulatory T cell differentiation; negative regulation of interleukin-2 biosynthetic process; positive regulation of histone acetylation Disease: Diabetes Mellitus, Insulin-dependent; Immunodysregulation, Polyendocrinopathy, And Enteropathy, X-linked
Research Articles on FOXP3	**1.** There was a significant positive correlation between the expression of EBI3 and Foxp3 mRNA in the sarcoidosis group (r=0.786, P<0.001). Conclusion: IL-35 may be involved in the inflammatory process of sarcoidosis and play an important role in the pathogenesis of the disease.

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