IL12B Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	IL12B, Blocking Peptide
Full Product Name	IL12B Peptide - middle region
Product Gene Name	IL12B blocking peptide
Product Synonym Gene Name	CLMF; NKSF; CLMF2; IMD28; IMD29; NKSF2; IL-12B
Sequence	Synthetic peptide located within the following region: YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT
Species Reactivity	Human
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	IL12B peptide (MBS3245942) is used for blocking the activity of IL12B antibody (MBS3221170)
Molecular Weight	37 kDa
OMIM	161561
Product Categories/Family for IL12B blocking peptide	Peptide
Related Product Information for IL12B blocking peptide	This is a synthetic peptide designed for use in combination with anti-IL12B Antibody, made Target Description: This gene encodes a subunit of interleukin 12, a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children.
Other Notes	Small volumes of IL12B 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 IL12B purchase	MBS3245942 is a blocking peptide targeting IL12B. Also known as IL12B Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL12B. It may not necessarily be applicable to this product.

NCBI GI #	24497438
NCBI GeneID	3593
NCBI Accession #	NP_002178.2
UniProt Primary Accession #	P29460
UniProt Related Accession #	P29460

GenBank Nucleotide #	NM_002187.2
NCBI Official Full Name	interleukin-12 subunit beta
NCBI Official Synonym Full Names	interleukin 12B
NCBI Official Symbol	IL12B
NCBI Official Synonym Symbols	CLMF; NKSF; CLMF2; IMD28; IMD29; NKSF2; IL-12B
UniProt Protein Name	Interleukin-12 subunit beta
UniProt Synonym Protein Names	Cytotoxic lymphocyte maturation factor 40 kDa subunit; CLMF p40; IL-12 subunit p40; NK cell stimulatory factor chain 2
Protein Family	Interleukin
UniProt Gene Name	IL12B
UniProt Synonym Gene Names	NKSF2; IL-12B; CLMF p40; NKSF2
UniProt Entry Name	IL12B_HUMAN
NCBI Protein Information	interleukin-12 subunit beta
NCBI Summary for IL12B	This gene encodes a subunit of interleukin 12, a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children. [provided by RefSeq, Jul 2008]
Research Articles on IL12B	**1.** Effect of polymorphisms in IL-12B p40, IL-17A and IL-23 A/G genes on the response of psoriatic patients to narrowband UVB.
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