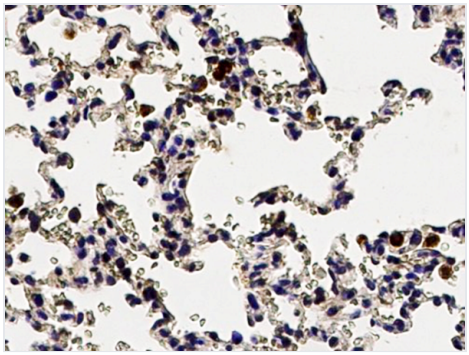
IL12B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IL12B, Polyclonal Antibody
Full Product Name	Anti-IL12B Antibody, Rabbit Polyclonal
Product Gene Name	anti-IL12B antibody
Product Synonym Names	IL12B/IL-12B Antibody, Rabbit PAb, Antigen Affinity Purified; interleukin 12B
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Rat IL12B/IL-12B
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	38,328 Da
3D Structure	ModBase 3D Structure for G3V9Y5
Immunogen	Recombinant Rat IL12B/IL-12B protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Rat IL12B/IL-12B. IL12B/IL-12B specific IgG was purified by Rat IL12B/IL-12B affinity chromatography.
Product Categories/Family for anti-IL12B antibody	IL12 signaling pathway
Applications Tested/Suitable for anti-IL12B antibody	ELISA (EIA), Immunohistochemistry-Paraffin (IHC-P)
Application Notes for anti-IL12B antibody	ELISA: 1:5000-1:10,000 IHC-P: 1:500-1:2000
Related Product Information for anti-IL12B antibody	Subunit beta of interleukin 12 (also known as natural killer cell stimulatory factor 2, or cytotoxic lymphocyte maturation factor 2, p40) (IL12B) is a subunit of human interleukin 12. IL12B/IL-12B is 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. IL12B/IL-12B is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine is 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. IL12B/IL-12B associates with IL23A to form the IL-23 interleukin, a heterodimeric cytokine that functions in innate and adaptive immunity.

Product References and Citations for anti-IL12B antibody	Taoufik Y, et al. (1997) Human immunodeficiency virus gp120 inhibits interleukin-12 secretion by human monocytes: an indirect interleukin-10-mediated effect. Blood. 89 (8): 2842-8. Fantuzzi L, et al. (1996) Induction of interleukin-12 (IL-12) by recombinant glycoprotein gp120 of human immunodeficiency virus type 1 in human monocytes/macrophages: requirement of gamma interferon for IL-12 secretion. J Virol. 70 (6): 4121-4. Aragane Y, et al. (1995) IL-12 is expressed and released by human keratinocytes and epidermoid carcinoma cell lines. J Immunol. 153 (12): 5366-72.
Other Notes	Small volumes of anti-IL12B antibody 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	MBS8112969 is an antibody targeting IL12B. Also known as Anti-IL12B Antibody, Rabbit Polyclonal. Reactive in Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-IL12B antibody
Immunochemical staining of rat IL12B in rat lung with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL DETAILS

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

NCBI GI #	564371446
NCBI GeneID	64546
NCBI Accession #	XP_006246209.1
UniProt Primary Accession #	G3V9Y5
UniProt Secondary Accession #	G3V9Y5
GenBank Nucleotide #	XM_006246147.3
NCBI Official Full Name	interleukin-12 subunit beta isoform X1
NCBI Official Synonym Full Names	interleukin 12B
NCBI Official Symbol	Il12b
NCBI Official Synonym Symbols	Il12
UniProt Protein Name	Interleukin-12 subunit beta
UniProt Synonym Protein Names	Cytotoxic lymphocyte maturation factor 40 kDa subunit
Protein Family	Interleukin
UniProt Gene Name	Il12b
UniProt Synonym Gene Names	IL-12B
NCBI Protein Information	interleukin-12 subunit beta
NCBI Summary for IL12B	a subunit of interleukin 12 which is a cytokine that acts on T and natural killer cells [RGD, Feb 2006]

UniProt Comments for IL12B	Cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine-activated killer cells, and stimulate the production of IFN-gamma by resting PBMC.
Research Articles on IL12B	**1.** There is a common program of effector T cell differentiation that is regulated by IL-2 and IL-12 signaling and the combined activities of the transcriptional regulators Blimp-1 and T-bet.
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