

Rat Anti-IL12B Monoclonal Antibody

Cat. No. DMABT-H19271 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat Anti-IL12B Monoclonal Antibody
Species	Human
Source	Rat
Antigen Description	Bioactive IL-12 is a potent regulator of cell-mediated immune responses and key mediator of Th1 cell development. Bioactive IL-12 is secreted by activated B lymphocytes, dendritic cells and macrophages as a 70 kD heterodimeric glycoprotein comprised of disulfide-bonded 35 kD and 40 kD subunits. The disulfide-linked p40 homodimer can bind to IL-12 receptors and antagonize the activities of bioactive IL-12.
Target	IL12B
Isotype	IgG1, kappa
species	Human
Clone	8C23
Conjugation	N/A
Applications	ELISA,ELISPOT

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Preparation	The LEAF (Low Endotoxin, Azide-Free) antibody was Purified by affinity chromatography.
Usage recommendation	Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-12 p70 recombinant protein ranging from 1000 to 8 pg/ml are recommended for each ELISA plate. For use as an ELISPOT capture antibody, a concentration range of 2-6 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.
Concentration	1.0 mg/ml
Storage	The antibody solution should be stored undiluted at 4 °C. This LEAF solution contains no preservative; handle under aseptic conditions.
Size	500 µg

GENE INFORMATION

Gene Name	IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [Homo sapiens]
Official Symbol	IL12B
Synonyms	IL12B; interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40); NKSF2; interleukin-12 subunit beta; CLMF; CLMF2; cytotoxic lymphocyte maturation factor 2; p40; IL 12B; IL12; subunit p40; interleukin 12; interleukin 12 beta chain; natural killer cell stimulatory factor; 40 kD subunit; natural killer cell stimulatory factor 2; NKSF; CLMF p40; IL-12 subunit p40; IL12, subunit p40; interleukin 12, p40; interleukin-12 beta chain; NK cell stimulatory factor

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chain 2; cytotoxic lymphocyte maturation factor 40 kDa subunit; natural killer cell stimulatory factor, 40 kD subunit; IL-12B;

Gene ID [3593](#)

mRNA Refseq [NM_002187](#)

Protein Refseq [NP_002178](#)

MIM [161561](#)

UniProt ID [P29460](#)

Chromosome Location 5q31.1-q33.1

Pathway African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem;

Function contributes_to cytokine activity; cytokine receptor activity; contributes_to growth factor activity; identical protein binding; interleukin-12 alpha subunit binding; interleukin-12 receptor binding; contributes_to interleukin-12 receptor binding; contributes_to interleukin-23 receptor binding; protein binding; protein heterodimerization activity; protein homodimerization activity;

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