Recombinant Anti-Human IL 12B Monoclonal Antibody

Cat. No. CAB-T9002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mab to IL12B. Recombinant monoclonal antibody to Human IL 12B.
Species	Human
Antigen Description	Cytokine that can act as a growth factorfor activated T and NK cells, enhance the lytic activity ofNK/lymphokine-activated Killer cells, and stimulate the production ofIFN-gamma by resting PBMC.
Protein Costruction	DNA sequences codingH and L chains of Anti-human interleukin-12/23 monoclonal antibody cotransfected to host cell were expressed.
Isotype	IgG
Formulation	Normally 1mg/mlL-His, 1mg/ml Sucrose and 0.04 mg/ml Tween-80 are added, pH 6.0. Pleasecontact us for any concerns or special requirements.
Purity Detail	>95% asdetermined by SDS-PAGE and HPLC
Expression Host	Chinese HamsterOvary (CHO cell)
Endotoxin	<1.0EUper 10 mg protein as determined by the LAL method
Molecular Mass	The secretedrecombinant Anti-human interleukin-12/23 monoclonal antibody comprises 1326amino acids. As a result of glycosylation, it has molecular mass of 150kDa inSDS-PAGE under non-reducing conditions.

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Predicted N terminal	H chain: EVQLVQSGAE;Lchain:DIQMTQSPSS
Stability	Samples are stablefor up to twelve months from date of receipt at -20°C and are stable forsix months at 4°C.
Storage	Store it understerile conditions at -70°C upon receiving. Recommend to pack the protein into smaller quantities for optimal storage.
Background	The recombinant antibody targets the epitope of IL12. Like Briakinumab or ustekinumab,whichis directed against interleukin 12 naturally occurring proteins that regulatethe immune system and immune-mediated inflammatory disorders. Anti-humaninterleukin-12/23 monoclonal antibody is a human IgG1 monoclonal antibodythat binds to subunit of p40, which is used by IL-12 and IL-23. It isproduced in Chinese hamster ovary (CHO) cells.

GENE INFORMATION

Gene Name	IL12B interleukin 12B(natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturationfactor 2, p40) [Homo sapiens]
Official Symbol	IL12B
Synonyms	IL12B; CLMF; NKSF; CLMF2; NKSF2; IL-12B;interleukin 12B (natural killer cell stimulatory factor 2, cytotoxiclymphocyte maturation factor 2, p40); interleukin-12 subunit beta CLMF p40; IL-12 subunit p40; IL12, subunit p40; OTTHUMP00000160820;interleukin 12, p40; interleukin-12 beta chain; NK cell stimulatory factorchain 2; cytotoxic lymphocyte maturation factor 40 kDa subunit; naturalkiller cell stimulatory factor, 40 kD subunit
Gene ID	3593

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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; Africantrypanosomiasis, conserved biosystem; Allograft rejection, organism-specificbiosystem; Allograft rejection, conserved biosystem; Amoebiasis,organism-specific biosystem; Amoebiasis, conserved biosystem; Chagas disease(American trypanosomiasis), organism-specific biosystem; Chagas disease (Americantrypanosomiasis), conserved biosystem; Cytokine-cytokine receptorinteraction, organism-specific biosystem; Cytokine-cytokine receptorinteraction, conserved biosystem; Cytokines and Inflammatory Response,organism-specific biosystem;
Function	contributes_tocytokine activity; cytokine receptor activity; contributes_to growth factoractivity; identical protein binding; interleukin-12 alpha subunit binding; interleukin-12receptor binding; contributes_to interleukin-12 receptor binding; contributes_tointerleukin-23 receptor binding; protein binding; protein heterodimerizationactivity; protein homodimerization activity; signal transducer activity

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