

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 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.
Protein Construction	DNA sequences coding H and L chains of Anti-human interleukin-12/23 monoclonal antibody cotransfected to host cell were expressed.
Isotype	IgG
Formulation	Normally 1mg/mL-His, 1mg/ml Sucrose and 0.04 mg/ml Tween-80 are added, pH 6.0. Please contact us for any concerns or special requirements.
Purity Detail	>95% as determined by SDS-PAGE and HPLC
Expression Host	Chinese Hamster Ovary (CHO cell)
Endotoxin	<1.0 EU per 10 mg protein as determined by the LAL method
Molecular Mass	The secreted recombinant Anti-human interleukin-12/23 monoclonal antibody comprises 1326 amino acids. As a result of glycosylation, it has molecular mass of 150kDa in SDS-PAGE under non-reducing conditions.

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Predicted N terminal	H chain: EVQLVQSGAE;Lchain:DIQMTQSPSS
Stability	Samples are stable for up to twelve months from date of receipt at -20°C and are stable for six months at 4°C.
Storage	Store it under sterile 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, which is directed against interleukin 12 naturally occurring proteins that regulate the immune system and immune-mediated inflammatory disorders. Anti-human interleukin-12/23 monoclonal antibody is a human IgG1 monoclonal antibody that binds to subunit of p40, which is used by IL-12 and IL-23. It is produced in Chinese hamster ovary (CHO) cells.
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; CLMF; NKSF; CLMF2; NKSF2; IL-12B; interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte 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 factor chain 2; cytotoxic lymphocyte maturation factor 40 kDa subunit; natural killer 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; 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; Chagas disease (American trypanosomiasis), conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response, 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; signal transducer activity