10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab)

Recombinant Antibody
Catalog # APR10466

Specification

Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab) - Product Information

Application	**FC, Kinetics, Animal Model**
Primary Accession	P29459
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**143.86 KDa**

Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab) - Additional Information

Target/Specificity
IL-12

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab) - Protein Information

Name IL12A

Synonyms NKSF1

Function
Heterodimerizes with IL12B to form the IL-12 cytokine or with EBI3/IL27B to form the IL-35 cytokine (PubMed:8605935, PubMed:8943050). IL-12 is primarily produced by professional antigen-presenting cells (APCs) such as B-cells and dendritic cells (DCs) as well as macrophages and granulocytes and regulates T-cell and natural killer-cell responses, induces the production of interferon-gamma (IFN-gamma), favors the differentiation of T-helper 1 (Th1) cells and is an important link between innate resistance and adaptive immunity (PubMed:1673147, PubMed:1674604, PubMed:<a

href="http://www.uniprot.org/citations/8605935" target="_blank">8605935). Mechanistically, exerts its biological effects through a receptor composed of IL12R1 and IL12R2 subunits (PubMed:8943050). Binding to the receptor results in the rapid tyrosine phosphorylation of a number of cellular substrates including the JAK family kinases TYK2 and JAK2 (PubMed:7528775). In turn, recruited STAT4 gets phosphorylated and translocates to the nucleus where it regulates cytokine/growth factor responsive genes (PubMed:7638186). As part of IL-35, plays essential roles in maintaining the immune homeostasis of the liver microenvironment and also functions as an immune-suppressive cytokine (By similarity). Mediates biological events through unconventional receptors composed of IL12RB2 and gp130/IL6ST heterodimers or homodimers (PubMed:22306691). Signaling requires the transcription factors STAT1 and STAT4, which form a unique heterodimer that binds to distinct DNA sites (PubMed:22306691).

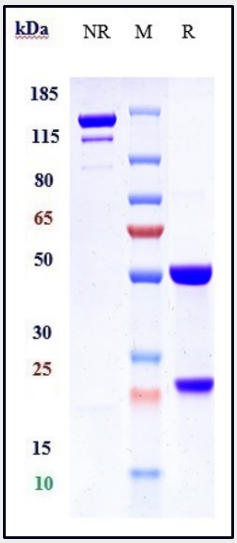
Cellular Location
Secreted

Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab) - Images



Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%

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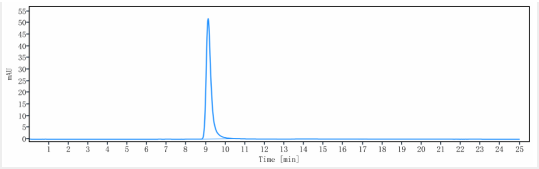

The purity of Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab)is more than 95% ,determined by SEC-HPLC.