

**Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab)  
Recombinant Antibody  
Catalog # APR10466****Specification**

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

Application	FC, E, FTA
Primary Accession	<a href="#">P29459</a>
Reactivity	Cynomolgus, 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**

&lt; 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.

**Storage**

-80°C for 2 years under sterile conditions □ -20°C for 1 year under sterile conditions □ Avoid repeated freeze-thaw cycles.

**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 EB13/IL27B to form the IL-35 cytokine (PubMed: &lt;a href="http://www.uniprot.org/citations/8605935" target="\_blank"&gt;8605935&lt;/a&gt;, PubMed: &lt;a href="http://www.uniprot.org/citations/8943050" target="\_blank"&gt;8943050&lt;/a&gt;). 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:<a href="http://www.uniprot.org/citations/1673147" target="\_blank">1673147</a>, PubMed:<a href="http://www.uniprot.org/citations/1674604" target="\_blank">1674604</a>, PubMed:<a href="http://www.uniprot.org/citations/8605935" target="\_blank">8605935</a>). Mechanistically, exerts its biological effects through a receptor composed of IL12R1 and IL12R2 subunits (PubMed:<a href="http://www.uniprot.org/citations/8943050" target="\_blank">8943050</a>). 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:<a href="http://www.uniprot.org/citations/7528775" target="\_blank">7528775</a>). In turn, recruited STAT4 gets phosphorylated and translocates to the nucleus where it regulates cytokine/growth factor responsive genes (PubMed:<a href="http://www.uniprot.org/citations/7638186" target="\_blank">7638186</a>). As part of IL-35, plays essential roles in maintaining the immune homeostasis of the liver microenvironment and functions also as an immune-suppressive cytokine (By similarity). Mediates biological events through unconventional receptors composed of IL12RB2 and gp130/IL6ST heterodimers or homodimers (PubMed:<a href="http://www.uniprot.org/citations/22306691" target="\_blank">22306691</a>). Signaling requires the transcription factors STAT1 and STAT4, which form a unique heterodimer that binds to distinct DNA sites (PubMed:<a href="http://www.uniprot.org/citations/22306691" target="\_blank">22306691</a>).

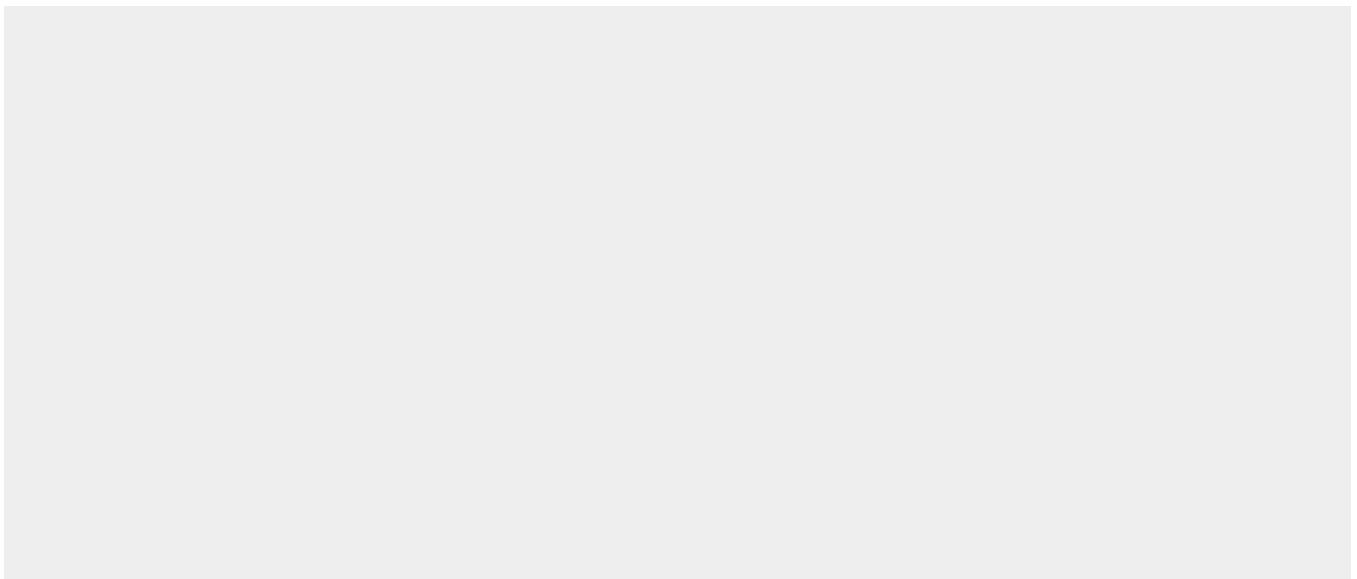
**Cellular Location**  
Secreted

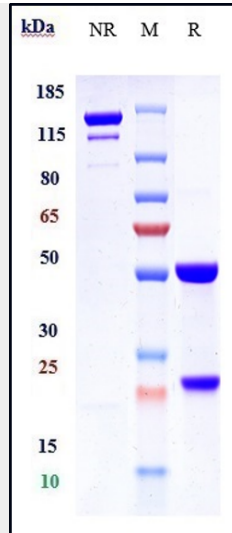
### **Anti-IL-12 (IL-12a & IL-12b) Reference Antibody (briakinumab) - Protocols**

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

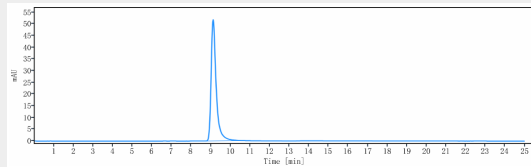
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **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%



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