

### Anti-IL-13 Antibody Catalog # ABO11012

## **Specification**

## **Anti-IL-13 Antibody - Product Information**

Application WB
Primary Accession P35225
Host Reactivity Human
Clonality Polyclonal
Format Lyophilized

**Description** 

Rabbit IgG polyclonal antibody for Interleukin-13(IL13) detection. Tested with WB in Human.

### Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## **Anti-IL-13 Antibody - Additional Information**

**Gene ID 3596** 

**Other Names** 

Interleukin-13, IL-13, IL13, NC30

Calculated MW 15816 MW KDa

**Application Details** 

Western blot, 0.1-0.5 μg/ml, Human<br>

**Subcellular Localization** 

Secreted.

**Protein Name** 

Interleukin-13(IL-13)

#### **Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

## Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human IL-13(135-146aa HLKKLFREGRFN).

#### **Purification**

Immunogen affinity purified.

### **Cross Reactivity**

No cross reactivity with other proteins



Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

**Sequence Similarities**Belongs to the IL-4/IL-13 family.

# **Anti-IL-13 Antibody - Protein Information**

Name IL13

Synonyms NC30

#### **Function**

Cytokine that plays important roles in allergic inflammation and immune response to parasite infection (PubMed:<a href="http://www.uniprot.org/citations/8096327" target="\_blank">8096327</a>, PubMed:<a href="http://www.uniprot.org/citations/8097324" target="\_blank">8097324</a>). Synergizes with IL2 in regulating interferon-gamma synthesis (PubMed:<a href="http://www.uniprot.org/citations/8096327" target="\_blank">8096327</a>). Stimulates B-cell proliferation, and activation of eosinophils, basophils, and mast cells (PubMed:<a href="http://www.uniprot.org/citations/7903680" target="\_blank">7903680</a>, PubMed:<a href="http://www.uniprot.org/citations/8759755" target="\_blank">8759755</a>). Plays an important role in controlling IL33 activity by modulating the production of transmembrane and soluble forms of interleukin-1 receptor-like 1/IL1RL1 (By similarity). Displays the capacity to antagonize Th1-driven proinflammatory immune response and downregulates synthesis of many proinflammatory cytokines including IL1, IL6, IL10, IL12 and TNF-alpha through a mechanism that partially involves suppression of NF-kappa-B (By similarity). Also functions on nonhematopoietic cells, including endothelial cells where it induces vascular cell adhesion protein 1/VCAM1, which is important in the recruitment of eosinophils (PubMed:<a href="http://www.uniprot.org/citations/8630787" target="http://www.uniprot.org/citations/8630787" target="http://

href="http://www.uniprot.org/citations/8639787" target="\_blank">8639787</a>). Exerts its biological effects through its receptors which comprises the IL4R chain and the IL13RA1 chain, to activate JAK1 and TYK2, leading to the activation of STAT6 (PubMed:<a href="http://www.uniprot.org/citations/9013879" target="\_blank">9013879</a>). Aside from IL13RA1, another receptor IL13RA2 acts as a high affinity decoy for IL13 and mediates internalization and depletion of extracellular IL13 (PubMed:<a href="http://www.uniprot.org/citations/21622864" target=" blank">21622864</a>).

Cellular Location Secreted.

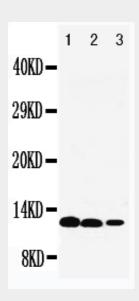
## **Anti-IL-13 Antibody - Protocols**

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-13 Antibody - Images**



Anti-IL-13 antibody, ABO11012, Western blottingLane 1: Recombinant Human IL-13 Protein 10ngLane 2: Recombinant Human IL-13 Protein 5ngLane 3: Recombinant Human IL-13 Protein 2.5ng

### Anti-IL-13 Antibody - Background

IL-13, Interleukin 13, is a protein that in humans is encoded by the IL-13 gene. IL-13 is cytokine secreted by many cell types, but especially T helper type 2(Th2) cells, that is an important mediator of allergic inflammation and disease. The IL-13 gene is mapped to 5q23-q31. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor(IL-4Ralpha) and at least one of two known IL-13-specific binding chains. IL-13 acts more prominently as a molecular bridge linking allergic inflammatory cells to the non-immune cells in contact with them, thereby altering physiological function.