

**Anti-IL12RB1 Picoband Antibody**  
**Catalog # ABO10287****Specification**

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**Anti-IL12RB1 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P42701</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Interleukin-12 receptor subunit beta-1 (IL12RB1) detection.  
Tested with WB in Human.

**Reconstitution**

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

**Anti-IL12RB1 Picoband Antibody - Additional Information**

**Gene ID** 3594

**Other Names**

Interleukin-12 receptor subunit beta-1, IL-12 receptor subunit beta-1, IL-12R subunit beta-1, IL-12R-beta-1, IL-12RB1, IL-12 receptor beta component, CD212, IL12RB1, IL12R, IL12RB

**Calculated MW**

73109 MW KDa

**Application Details**

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

**Subcellular Localization**

Membrane; Single-pass type I membrane protein.

**Protein Name**

Interleukin-12 receptor subunit beta-1

**Contents**

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

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human IL12RB1 (624-662aa DKGERTEPLEKTELPEGAPELALDTELSLEDGDRCKAKM).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

Storage

**At -20°C for one year. After reconstitution, 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.**

### **Anti-IL12RB1 Picoband Antibody - Protein Information**

**Name** IL12RB1

**Synonyms** IL12R, IL12RB

#### **Function**

Functions as an interleukin receptor which binds interleukin- 12 with low affinity and is involved in IL12 transduction. Associated with IL12RB2 it forms a functional, high affinity receptor for IL12. Associates also with IL23R to form the interleukin-23 receptor which functions in IL23 signal transduction probably through activation of the Jak-Stat signaling cascade.

#### **Cellular Location**

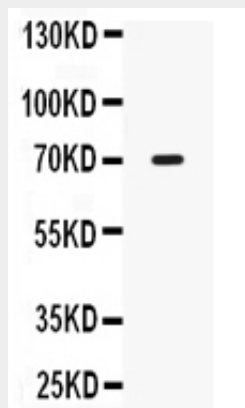
Membrane; Single-pass type I membrane protein.

### **Anti-IL12RB1 Picoband 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 Cytometry](#)
- [Cell Culture](#)

### **Anti-IL12RB1 Picoband Antibody - Images**



Western blot analysis of IL12RB1 expression in HEPG2 whole cell lysates (lane 1). IL12RB1 at 70KD was detected using rabbit anti- IL12RB1 Antigen Affinity purified polyclonal antibody

(Catalog #A03401) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.

#### **Anti-IL12RB1 Picoband Antibody - Background**

IL12RB1, mapped to 19p13.11, is also known as CD212. The protein encoded by this gene is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. This protein binds to interleukin 12 (IL12) with a low affinity, and is thought to be a part of IL12 receptor complex. And this protein forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of this and IL12RB2 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. Mutations in this gene impair the development of interleukin-17-producing T lymphocytes and result in increased susceptibility to mycobacterial and Salmonella infections. Alternative splicing results in multiple transcript variants.