

Anti-IL12RB1 Picoband Antibody

Catalog # ABO10287

Specification

Anti-IL12RB1 Picoband Antibody - Product Information

Application	WB
Primary Accession	<u>P42701</u>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	
Rabbit IgG polyclonal antibody fo	r 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

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 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.

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. Also associates 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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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 $\hat{l}^{1}\!\!\!/_{4}g/mL.$ 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 interleukine 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.