

Anti-IL12RB1 Picoband Antibody

Catalog # ABO10287

Product Information

Application	WB
Primary Accession	P42701
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.

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
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Source	Eukaryota
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.

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.

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.

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 .

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