

IL12RB1 Rabbit pAb

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Catalog # AP52205

Product Information

Primary Accession	Q60837
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81788
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse IL-12RB1
Epitope Specificity	401-500/738
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type I membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. 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. The lack of expression of this gene was found to result in the immunodeficiency of patients with severe mycobacterial and Salmonella infections. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq].

Additional Information

Gene ID	16161
Other Names	Interleukin-12 receptor subunit beta-1, IL-12 receptor subunit beta-1, IL-12R subunit beta-1, IL-12R-beta-1, IL-12 receptor beta component, CD212, IL12rb1, IL12rb
Dilution	Flow-Cyt=1ug/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Il12rb1
Synonyms	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.

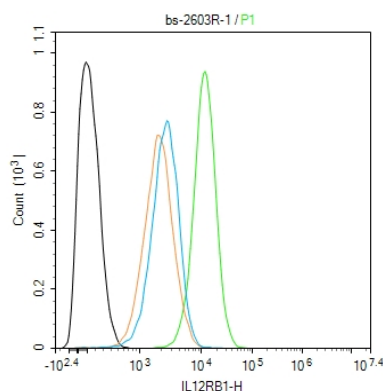
Background

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References

Chua A.O.,et al.J. Immunol. 153:128-136(1994).
Elloumi-Zghal H.,et al.Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Grimwood J.,et al.Nature 428:529-535(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images



Blank control:RAW264.7.
Primary Antibody (green line): Rabbit Anti-IL12RB1 antibody (AP52205)
Dilution: 1ug/Test;
Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488
Dilution: 0.5ug/Test.
Isotype control(orange line) : Normal Rabbit IgG
Protocol
The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.