

Rabbit IL12RB1 Polyclonal Antibody | anti-IL12RB1 antibody

Anti-IL12RB1 Antibody

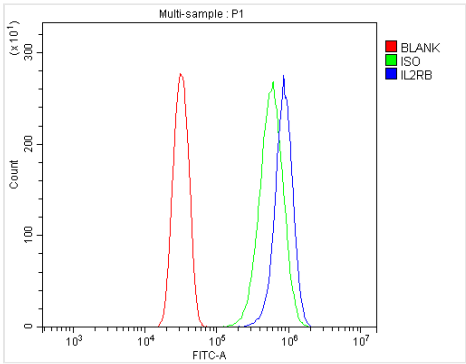
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125692	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

IL12RB1; Polyclonal Antibody; Anti-IL12RB1 Antibody; CD212; IL-12R-beta-1; IL-12RB1; IL12RB; IL12rb1; IMD3; IMD30; P42701; interleukin 12 receptor subunit beta 1; anti-IL12RB1 antibody

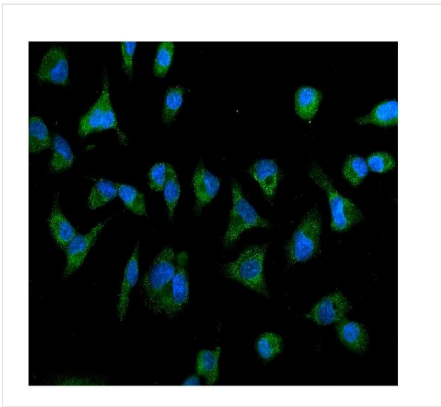
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for IL12RB1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg NaN3.
Applicable Applications for anti-IL12RB1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human IL12RB1 recombinant protein (Position: R268-V551).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



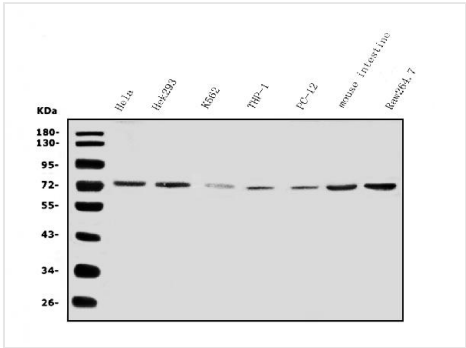
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U2OS cells using anti-IL12RB1 antibody (AAA125692).Overlay histogram showing U2OS cells stained with AAA125692 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IL12RB1 Antibody (AAA125692, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of IL12RB1 using anti- IL12RB1 antibody (AAA125692).IL12RB1 was detected in immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- IL12RB1 Antibody (AAA125692) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of IL12RB1 using anti-IL12RB1 antibody (AAA125692).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysatesLane 2: human Hek293 whole cell lysatesLane 3: human K562 whole cell lysatesLane 4: human THP-1 whole cell lysatesLane 5: rat PC-12 whole cell lysatesLane 6: mouse intestine tissue lysatesLane 7: mouse RAW264.7 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IL12RB1 antigen affinity purified polyclonal antibody (Catalog # AAA125692) at 0.5 μg/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for IL12RB1 at approximately 75KD. The expected band size for IL12RB1 is at 75KD.

ADDITIONAL INFORMATION

Related Product Information for anti-IL12RB1 antibody

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.

References	1. "Entrez Gene: IL12RB1 interleukin 12 receptor, beta 1". 2. Altare F, Ensser A, Breiman A, et al. (2001). "Interleukin-12 receptor beta1 deficiency in a patient with abdominal tuberculosis". J. Infect. Dis. 184 (2): 231-6. 3. Parham C, Chirica M, Timans J, et al. (2002). "A receptor for the heterodimeric cytokine IL-23 is composed of IL-12Rbeta1 and a novel cytokine receptor subunit, IL-23R". J. Immunol. 168 (11): 5699-708.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504665
NCBI GeneID	3560
NCBI Accession #	NP_000869.1
NCBI GenBank Nucleotide #	NM_000878.3
UniProt Accession #	P14784; B2R765
Molecular Weight	61,117 Da
NCBI Official Full Name	interleukin-2 receptor subunit beta
NCBI Official Synonym Full Names	interleukin 2 receptor, beta
NCBI Official Symbol	IL2RB
NCBI Official Synonym Symbols	CD122; IL15RB; P70-75
NCBI Protein Information	interleukin-2 receptor subunit beta; p75; IL-2RB; CD122 antigen; IL-2R subunit beta; IL-2 receptor subunit beta; interleukin 15 receptor, beta; high affinity IL-2 receptor beta subunit; high affinity IL-2 receptor subunit beta
UniProt Protein Name	Interleukin-2 receptor subunit beta
UniProt Gene Name	IL2RB
UniProt Synonym Gene Names	IL-2 receptor subunit beta; IL-2R subunit beta; IL-2RB; p75
UniProt Entry Name	IL2RB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/il12rb1-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125692>