

Rabbit anti-Mouse, Rat IL4R Polyclonal Antibody | anti-IL4r antibody

Anti-IL4R Antibody

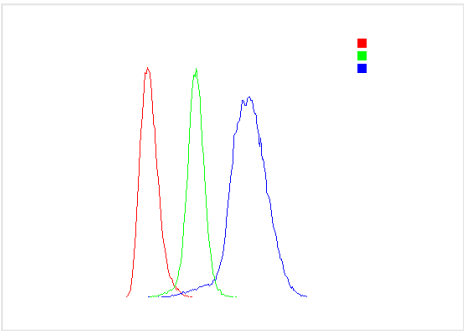
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125574	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

IL4R; Polyclonal Antibody; Anti-IL4R Antibody; IL4r; IL4ra; Interleukin-4 receptor subunit alpha; IL-4 receptor subunit alpha; IL-4R subunit alpha; IL-4R-alpha; IL-4RA; CD antigen CD124; interleukin 4 receptor; anti-IL4r antibody

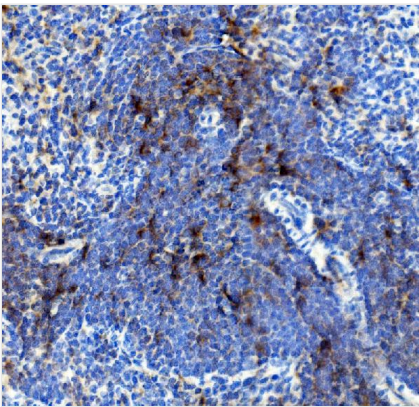
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for IL4R 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-IL4r antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	E Coli-derived rat IL4R recombinant protein (Position: I26-E719).
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 2. Flow Cytometry analysis of mouse spleen tissue using anti-IL4R antibody (AAA125574).Overlay histogram showing mouse spleen tissue cells stained with AAA125574 (Blue line). The tissue section was blocked with 10% normal goat serum. And then incubated with rabbit anti-IL4R Antibody (AAA125574, 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.



IHC (Immunohistochemistry)

Figure 1. IHC analysis of IL4R using anti-IL4R antibody (AAA125574).IL4R was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-IL4R Antibody (AAA125574) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-IL4R antibody	IL4R(INTERLEUKIN 4 RECEPTOR) is a human gene that encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE antibody production in B cells. The IL4R gene is localized to 16p12. 1-p11. 2 by in situ hybridization and Southern blot analysis of DNA from a panel of mouse-human somatic cell lines. IL4 plays a major role in immunoglobulin E(IgE) production. Its signal is conferred to effector cells through binding to the alpha chain of the IL4 receptor. IL4 interacts with IL4R with high affinity, leading to dimerization with either the common gamma chain,a component of receptors for a number of cytokines, to create a type I receptor, or with IL13RA1 to form a type II receptor. The IL4R gene contains 12 exons and IL4R is a complex of at least 2 components, one of which is a novel affinity converting subunit that is critical for cellular signal transduction. See also IL13RA1 and IL13RA2.
References	1. Bergin, A. -M., Balder, B., Kishore, S., Sward, K., Hahn-Zoric, M., Lowhagen, O., Hanson, L. A., Padyukov, L. Common variations in the IL4R gene affect splicing and influence natural expression of the soluble isoform. Hum. Mutat. 27: 990-998, 2006. 2. Blaeser, F., Bryce, P. J., Ho, N., Raman, V., Dedeoglu, F., Donaldson, D. D., Geha, R. S., Oettgen, H. C., Chatila, T. A. Targeted inactivation of the IL-4 receptor alpha chain I4R motif promotes allergic airway inflammation. J. Exp. Med. 198: 1189-1200, 2003. 3. Ikizawa, K; Yanagihara Y (Feb. 2000). "Possible involvement of Shc in IL-4-induced germline epsilon transcription in a human B cell line". Biochem. Biophys. Res.

NCBI AND UNIPROT INFORMATION

NCBI GI #	158534071
NCBI GeneID	25084
NCBI Accession #	NP_596871.2
NCBI GenBank Nucleotide #	NM_133380.2
UniProt Accession #	Q63257; Q9R1W8; Q9WTM8
Molecular Weight	26,001 Da
NCBI Official Full Name	interleukin-4 receptor subunit alpha
NCBI Official Synonym Full Names	interleukin 4 receptor
NCBI Official Symbol	IL4r

NCBI Official Synonym Symbols	Il4ra
NCBI Protein Information	interleukin-4 receptor subunit alpha
UniProt Protein Name	Interleukin-4 receptor subunit alpha
UniProt Gene Name	Il4r
UniProt Synonym Gene Names	Il4ra; IL-4 receptor subunit alpha; IL-4R subunit alpha; IL-4R-alpha; IL-4RA

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/il4r-antibody-direct-elisa-flow-cytometry-immunohistochemistry-elisa/125574>