

Anti-IL4R Antibody

Catalog Number: A00807-2

About IL4r

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.

Overview

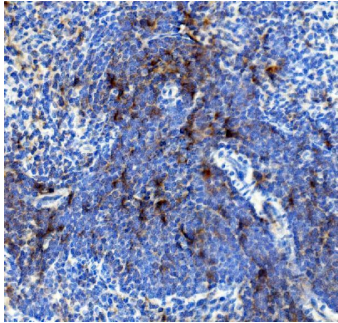
Product Name	Anti-IL4R Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-IL4R Antibody catalog # A00807-2. Tested in ELISA, Flow Cytometry, IHC applications. This antibody reacts with Mouse, Rat.
Application	ELISA, Flow Cytometry, IHC
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.005mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q63257

Technical Details

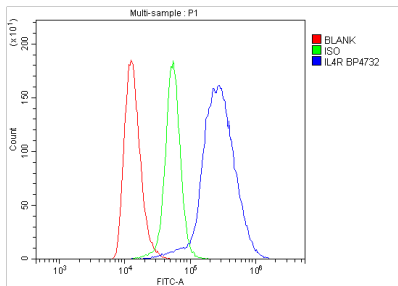
Immunogen	E.coli-derived rat IL4R recombinant protein (Position: I26-E719).
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3ug/1x10 ⁶ cells, Mouse ELISA, 0.1-0.5ug/ml,

Anti-IL4R Antibody (A00807-2) Images



IHC analysis of IL4R using anti-IL4R antibody (A00807-2). 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 2ug/ml rabbit anti-IL4R Antibody (A00807-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



Flow Cytometry analysis of mouse spleen tissue using anti-IL4R antibody (A00807-2). Overlay histogram showing mouse spleen tissue cells stained with A00807-2 (Blue line). The tissue section was fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-IL4R Antibody (A00807-2, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-IL4R Antibody

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