Product datasheet

Anti-IL4R Antibody

Catalog Number: *A00807-2*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-IL4R Antibody
Gene Name	Il4r
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived rat IL4R recombinant protein (Position: I26-E719).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Dilution Ratios	Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE

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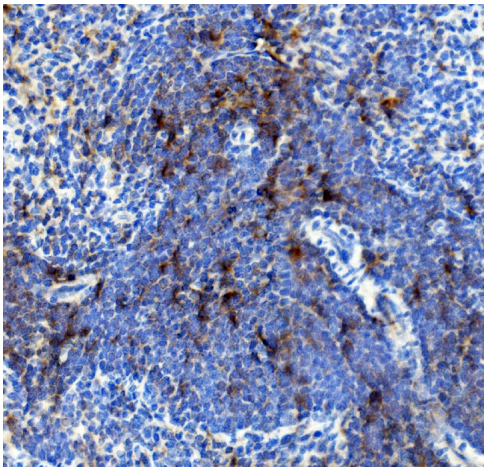
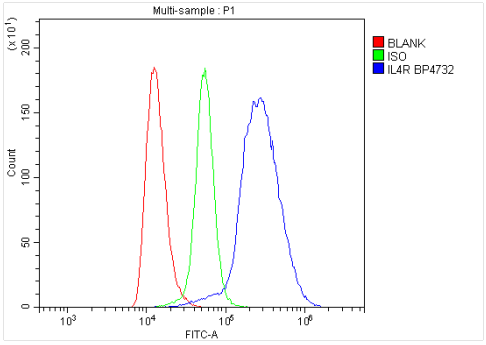
Selected Validation Data



IHC analysis of IL4R using anti-IL4R antibody (A00807-2).
IL4R was detected in a paraffin-embedded section of rat spleen tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-IL4R Antibody (A00807-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of mouse spleen tissue using anti-IL4R antibody (A00807-2).
Overlay histogram showing mouse spleen tissue stained with A00807-2 (Blue line). The tissue was fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-IL4R Antibody (A00807-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution 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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