Product datasheet

Anti-IL4R Antibody

Catalog Number: *BA3663*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-IL4R Antibody
Gene Name	IL4R
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human IL4R.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	90 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (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.

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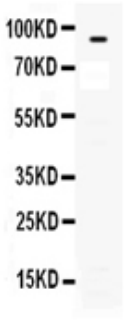
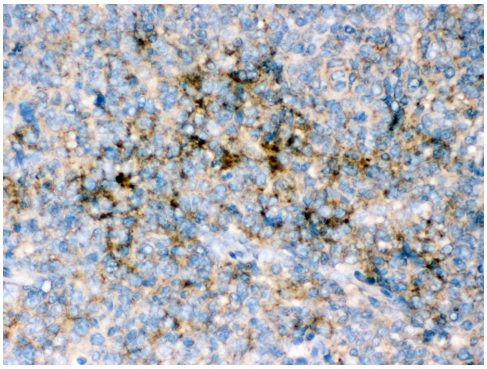
Selected Validation Data



Western blot analysis of IL4R using anti-IL4R antibody (BA3663). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human serum lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-IL4R antigen affinity purified polyclonal antibody (BA3663) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for IL4R at approximately 90 kDa. The expected band size for IL4R is at 90 kDa.



IHC analysis of IL4R using anti-IL4R antibody (BA3663).
IL4R was detected in a paraffin-embedded section of human tonsil tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-IL4R Antibody (BA3663) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.