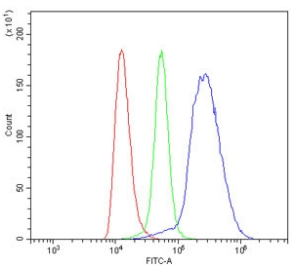
Il4 receptor Antibody (RQ6186)

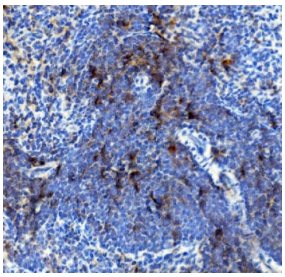
Catalog No.	Formulation	Size
RQ6186	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Rat, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.0125% sodium azide
UniProt	Q63257
Applications	Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Il4 receptor antibody is available for research use only.



Flow cytometry testing of mouse spleen cells with Il4 receptor antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= IL4 Receptor antibody.



IHC staining of FFPE rat spleen with Il4 receptor antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

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.

Application Notes

Optimal dilution of the Il4 receptor antibody should be determined by the researcher.

Immunogen

A rat recombinant partial protein (amino acids I26-E719) was used as the immunogen for the Il4 receptor antibody.

Storage

After reconstitution, the Il4 receptor antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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