

## Rabbit anti-Human, Mouse IL-4R alpha Polyclonal Antibody | anti-IL4R antibody

IL-4R alpha Antibody

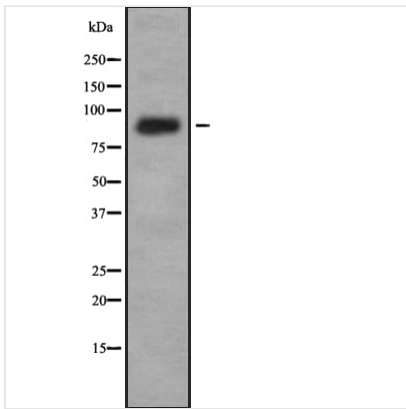
| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                                       |
|-----------|--------|--------------|------------------------------------------------------------------------------------|
| AAA327526 | Rabbit | Human, Mouse | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

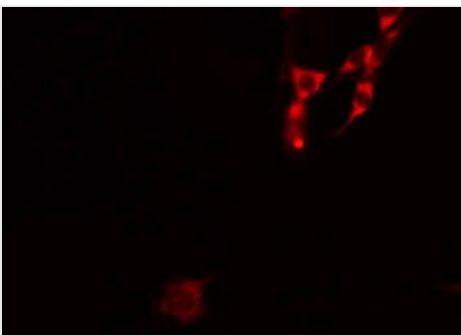
IL-4R alpha; Polyclonal Antibody; IL-4R alpha Antibody; CD124; IL 4R alpha; IL-4 receptor subunit alpha; IL-4-binding protein; IL-4R subunit alpha; IL-4R-alpha; IL-4RA; IL4-BP; IL4r; IL4R nirs variant 1; IL4RA; IL4RA\_HUMAN; Interleukin 4 receptor alpha chain; Interleukin 4 receptor; sIL4Ralpha/prot; Soluble IL-4 receptor subunit alpha; Soluble IL-4R-alpha; Soluble interleukin-4 receptor subunit alpha; anti-IL4R antibody

### PRODUCT SPECIFICATIONS

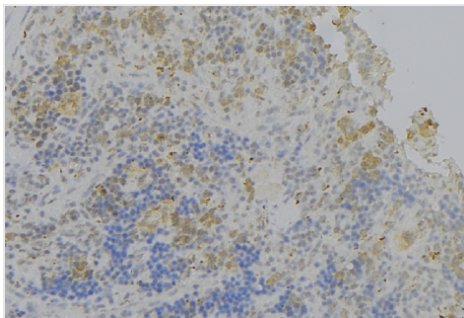
|                                                |                                                                                                          |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                   |
| Reactivity                                     | Human, Mouse                                                                                             |
| Clonality                                      | Polyclonal                                                                                               |
| Isotype                                        | IgG                                                                                                      |
| Specificity                                    | IL-4R alpha antibody detects endogenous levels of total IL-4R alpha                                      |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.            |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.            |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                   |
| Sequence Length                                | 825                                                                                                      |
| Applicable Applications for anti-IL4R antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                      | A synthesized peptide derived from human IL-4R alpha                                                     |
| Subcellular Location                           | Secreted and Cell Membrane.                                                                              |
| Tissue Specificity                             | Isoform 1 and isoform 2 are highly expressed in activated T-cells.                                       |
| Conjugation                                    | Unconjugated                                                                                             |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                        |



**WB (Western Blot)**  
Western blot analysis IL-4R alpha using K562 whole cell lysates



**IF (Immunofluorescence)**  
AAA327526 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
AAA327526 at 1/100 staining Human lymph node tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

**Related Product Information for anti-IL4R antibody**

**Function:** Receptor for both interleukin 4 and interleukin 13. Couples to the JAK1/2/3-STAT6 pathway. The IL4 response is involved in promoting Th2 differentiation. The IL4/IL13 responses are involved in regulating IgE production and, chemokine and mucus production at sites of allergic inflammation. In certain cell types, can signal through activation of insulin receptor substrates, IRS1/IRS2.

**Subunit Structure:** The functional IL4 receptor is formed by initial binding of IL4 to IL4R. Subsequent recruitment to the complex of the common gamma chain, in immune cells, creates a type I receptor and, in non-immune cells, of IL13RA1 forms a type II receptor. IL4R can also interact with the IL13/IL13RA1 complex to form a similar type II receptor (PubMed:7775445, PubMed:8804422). Interacts with PIK3C3 (By similarity). Interacts with the SH2-containing phosphatases, PTPN6/SHIP1, PTPN11/SHIP2 and INPP5D/SHIP (PubMed:11714803). Interacts with JAK1 through a Box 1-containing region; inhibited by SOCS5. Interacts with SOCS5; inhibits IL4 signaling (By similarity). Interacts with JAK3 (PubMed:7538655). Interacts with CLM1 (By similarity).

**Post-translational Modifications:** On IL4 binding, phosphorylated on C-terminal tyrosine residues. Phosphorylation on any one of tyrosine residues, Tyr-575, Tyr-603 or Tyr-631, is required for STAT6-induced gene induction. The soluble form (sIL4R/IL4BP) can also be produced by proteolytic cleavage at the cell surface (shedding) by a metalloproteinase.

**Similarity:** The extracellular domain represents the IL4 binding protein (IL4BP).The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.The box 1 motif is required for JAK interaction and/or activation.Contains 1 copy of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases. Belongs to the type I cytokine receptor family. Type 4 subfamily.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4557669                                                                                                                                                         |
| NCBI GeneID                      | 3566                                                                                                                                                            |
| NCBI Accession #                 | NP_000409.1                                                                                                                                                     |
| NCBI GenBank Nucleotide #        | NM_000418.3                                                                                                                                                     |
| UniProt Accession #              | P24394; Q96P01; Q9H181; Q9H182; Q9H183; Q9H184; Q9H185; Q9H186; Q9H187; B4E076; B9EKU8; H3BSY5                                                                  |
| Molecular Weight                 | Observed: 89 kDa<br>Predicted: 90 kDa                                                                                                                           |
| NCBI Official Full Name          | interleukin-4 receptor subunit alpha isoform a                                                                                                                  |
| NCBI Official Synonym Full Names | interleukin 4 receptor                                                                                                                                          |
| NCBI Official Symbol             | IL4R                                                                                                                                                            |
| NCBI Official Synonym Symbols    | CD124; IL4RA; IL-4RA                                                                                                                                            |
| 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; Soluble IL-4 receptor subunit alpha; Soluble IL-4R-alpha; sIL4Ralpha/prot; IL4-BP |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/il-4r-alpha-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/327526>