



20180823DS

Anti-Human IL-4 receptor alpha, soluble

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	102-P106
Size:	100 µg
Lot. No.:	According to product label

Preparation: Anti-Human sIL-4 Receptor α -specific antibody was purified by affinity chromatography employing an immobilized-Human sIL-4 Receptor α matrix.

Target Background

Synonyms (Target):	soluble Interleukin-4R α , soluble IL-4 Receptor alpha, CD124
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IL-4 can signal through type I and type II receptor complexes, which share a common gamma chain (γ c). The type I receptor contains, in addition to the γ c, an IL-4R α subunit, whereas the type II receptor contains the IL-13R α . The secreted extracellular domain of IL-4R α , called sIL-4R α , binds IL-4 and antagonizes its activity. It plays an important role in regulating the differentiation of naïve CD4⁺ T cells and class switching to IgG1 and IgE.

Database References Target

Protein RefSeq:	NP_000409.1
Uniprot ID:	P24394
mRNA RefSeq:	NM_000418

Product Specifications

Host	Rabbit
Reactivity against	Human
Clonality	Polyclonal Antibody
Isotype	Rabbit IgG
Purification	Antigen-affinity purified
Antigen	CHO cells derived Recombinant Human IL-4 Receptor α
Formulation	lyophilized from PBS
Reconstitution buffer	water

Remarks:

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

Sandwich ELISA: To detect Human sIL-4 Receptor α by sandwich ELISA (using 100µl/well), a concentration of 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with a Biotinylated Anti-Human sIL-4 Receptor α as a detection antibody, allows the detection of at least 2000-4000 pg/ml of Recombinant Human sIL-4 Receptor α .

Western Blot: To detect Human sIL-4 Receptor α by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. When used in conjunction with compatible secondary reagents, the detection limit for Recombinant Human sIL-4 Receptor α is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!