



IL-4R α (phospho Tyr497) rabbit pAb

Cat No.:ES5879

For research use only

Overview

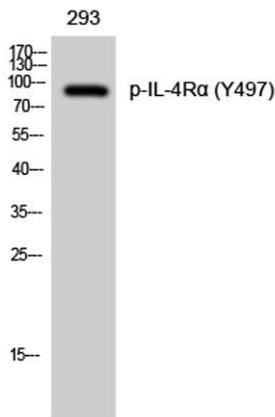
Product Name	IL-4R α (phospho Tyr497) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human IL-4R/CD124 around the phosphorylation site of Tyr497. AA range:463-512
Specificity	Phospho-IL-4R α (Y497) Polyclonal Antibody detects endogenous levels of IL-4R α protein only when phosphorylated at Y497.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Interleukin-4 receptor subunit alpha
Gene Name	IL4R
Cellular localization	Cell membrane; Single-pass type I membrane protein.; [Isoform 2]: Secreted.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	90kD
Human Gene ID	3566
Human Swiss-Prot Number	P24394
Alternative Names	IL4R; IL4RA; 582J2.1; Interleukin-4 receptor subunit alpha; IL-4 receptor subunit alpha; IL-4R subunit alpha; IL-4R-alpha; IL-4RA; CD antigen CD124





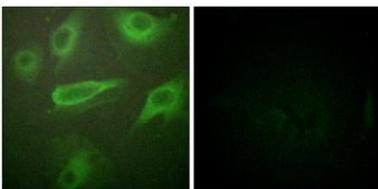
Background

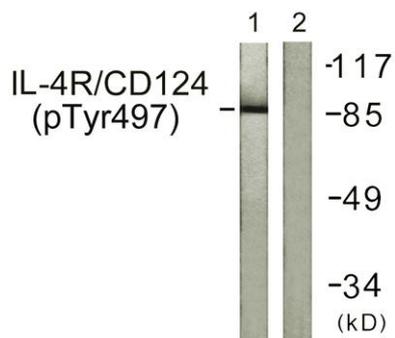
This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE production. The encoded protein also can bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded protein can be produced by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. Allelic variations in this gene have been associated with atopy, a condition that can manifest itself as allergic rhinitis, sinusitis, asthma, or eczema. Polymorphisms in this gene are also associated with resistance to human immunodeficiency virus type-1 infection. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Apr 2012],



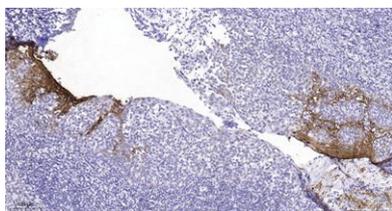
Western Blot analysis of 293 cells using Phospho-IL-4Rα (Y497) Polyclonal Antibody

Immunofluorescence analysis of HeLa cells, using IL-4R/CD124 (Phospho-Tyr497) Antibody. The picture on the right is blocked with the phospho peptide.





Western blot analysis of lysates from 293 cells, using IL-4R/CD124 (Phospho-Tyr497) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA, pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight). 3, Secondary antibody was diluted at 1:200(room temperature, 45min).

