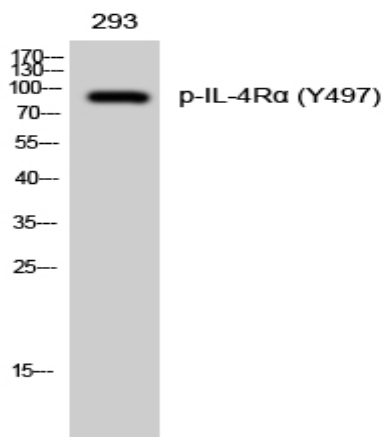


**IL-4R $\alpha$  (phospho Tyr497) Polyclonal Antibody**

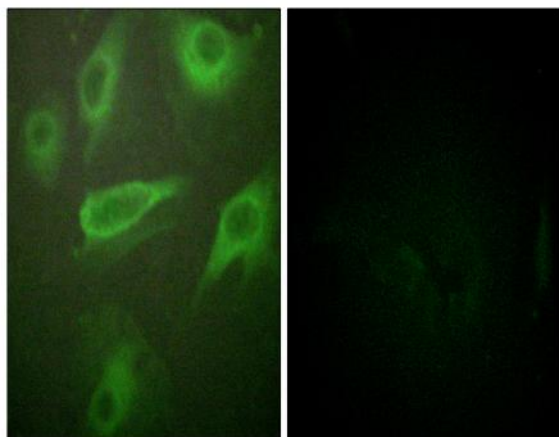
<b>Catalog No :</b>	YP0560
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	IL-4R/CD124
<b>Fields :</b>	>>Cytokine-cytokine receptor interaction;>>PI3K-Akt signaling pathway;>>JAK-STAT signaling pathway;>>Hematopoietic cell lineage;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>Pathways in cancer;>>Inflammatory bowel disease
<b>Gene Name :</b>	IL4R
<b>Protein Name :</b>	Interleukin-4 receptor subunit alpha
<b>Human Gene Id :</b>	3566
<b>Human Swiss Prot No :</b>	P24394
<b>Mouse Gene Id :</b>	16190
<b>Mouse Swiss Prot No :</b>	P16382
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human IL-4R/CD124 around the phosphorylation site of Tyr497. AA range:463-512
<b>Specificity :</b>	Phospho-IL-4R $\alpha$ (Y497) Polyclonal Antibody detects endogenous levels of IL-4R $\alpha$ protein only when phosphorylated at Y497.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	90kD
<b>Cell Pathway :</b>	Cytokine-cytokine receptor interaction;Jak_STAT;Hematopoietic cell lineage;
<b>Background :</b>	<p>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],</p>
<b>Function :</b>	<p>domain: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.,domain:The box 1 motif is required for JAK interaction and/or activation.,domain:The extracellular domain represents the IL4 binding protein (IL4BP).,domain:The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.,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 cel</p>
<b>Subcellular Location :</b>	Cell membrane; Single-pass type I membrane protein.; [Isoform 2]: Secreted.
<b>Expression :</b>	Isoform 1 and isoform 2 are highly expressed in activated T-cells.
<b>Sort :</b>	8515
<b>No4 :</b>	1
<b>Host :</b>	Rabbit

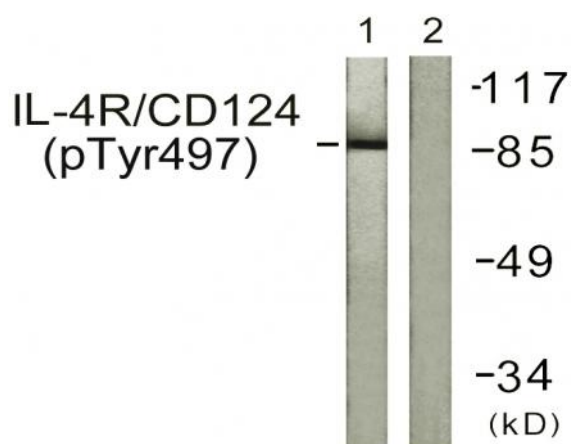
## Products Images



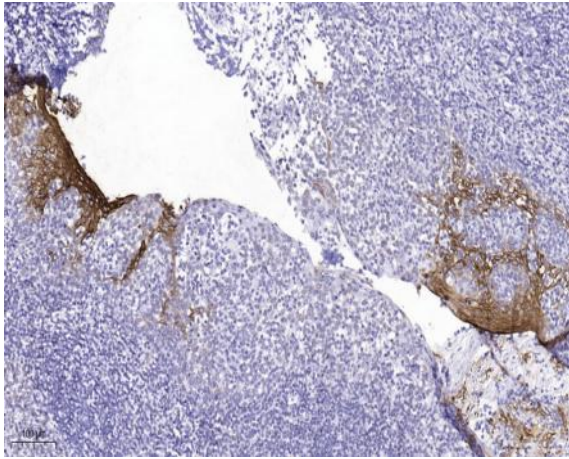
Western Blot analysis of 293 cells using Phospho-IL-4R $\alpha$  (Y497) Polyclonal Antibody



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, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45 min).