



# Anti-IL13RA1 polyclonal antibody [Biotin] (DPABY-528)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	Two members of the type 5 subfamily of type I cytokine receptors can serve as receptors for IL-13. IL-13 can bind to IL-13 R alpha 1 (CD213a1; previously designated IL-13 R alpha or NR4) with low affinity, then recruits the IL-4 R alpha chain to form a high affinity receptor, causing downstream STAT6 activation. Alternately, IL-13 can bind IL-13 R alpha 2 (CD213a2) with high affinity; this interaction does not cause activation of STAT6, but does induce TGF-beta production. IL-13 R alpha 1 and IL-13 R alpha 2 each have three extracellular fibronectin type III domains, two cytokine receptor homology modules and a WSXWS motif typical of the class I cytokine receptor family, but IL-13 R alpha 2 has a much shorter cytoplasmic tail. IL-13 R subunits can be expressed on monocytes, macrophages, fibroblasts, human B cells, basophils, eosinophils, endothelial cells, and smooth muscle cells.
<b>Specificity</b>	Detects human IL-13 R alpha 1 in ELISAs and Western blots. In sandwich ELISAs, less than 1% cross-reactivity with recombinant human (rh) IL-13R alpha 2, recombinant mouse (rm)IL-13 R alpha, rhIL-4 R, rhIL-5 R alpha, and rhIL-9 R is observed.
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human IL-13 R alpha 1. Ala27-Thr343 (Thr130Ile) Accession Number Q5JSL4
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	Western Blot, Flow Cytometry, ELISA Detection (Matched Pair)

<b>Format</b>	Liquid
<b>Size</b>	50 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>Preservative</b>	None
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">IL13RA1 interleukin 13 receptor, alpha 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	IL13RA1
<b>Synonyms</b>	IL13RA1; interleukin 13 receptor, alpha 1; NR4; CD213A1; IL-13Ra; interleukin-13 receptor subunit alpha-1; CT19; IL-13RA1; IL-13R-alpha-1; CD213a1 antigen; IL-13R subunit alpha-1; cancer/testis antigen 19; IL13 receptor alpha-1 chain; IL-13 receptor subun
<b>Entrez Gene ID</b>	<a href="#">3597</a>
<b>Protein Refseq</b>	<a href="#">NP_001551</a>
<b>UniProt ID</b>	<a href="#">P78552</a>
<b>Chromosome Location</b>	Xq24
<b>Pathway</b>	Cytokine-cytokine receptor interaction; IL-4 signaling Pathway; IL4-mediated signaling events; Jak-STAT signaling pathway;
<b>Function</b>	interleukin-13 receptor activity; protein binding;