

For Research Use Only

# IL-13R $\alpha$ 1 Polyclonal antibody

Catalog Number: 27916-1-AP



## Basic Information

<b>Catalog Number:</b> 27916-1-AP	<b>GenBank Accession Number:</b> BC009960	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 200 $\mu$ g/ml	<b>GeneID (NCBI):</b> 3597	<b>Recommended Dilutions:</b> WB 1:500-1:3000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P78552	
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 13 receptor, alpha 1	
<b>Immunogen Catalog Number:</b> AG25542	<b>Calculated MW:</b> 49 kDa	
	<b>Observed MW:</b> 70 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HT-29 cells, Jurkat cells, Raji cells, mouse skeletal muscle tissue
<b>Species Specificity:</b> Human, Mouse	

## Background Information

IL-13 is an immunoregulatory cytokine secreted predominantly by activated T-helper 2 (Th2) cells and performs multiple functions through a complex receptor system comprised of IL-4R  $\alpha$  and two IL-13 binding proteins, IL-13R  $\alpha$  1 and IL-13R  $\alpha$  2 (PMID: 12704343). IL-13R  $\alpha$  1 is a 65- to 70-kd glycosylated transmembrane protein (PMID: 10856136; 9723655). IL-13R  $\alpha$  1 is expressed on a wide range of cells including B cells, monocytes, macrophages, basophils, mast cells, and endothelial cells (PMID: 10856136; 31866859). IL-13 binding to the IL-4R  $\alpha$  /IL-13R  $\alpha$  1 complex leads to activation of JAK1, JAK2, and TYK2 and subsequent phosphorylation of STAT6 and STAT3 (PMID: 31866859).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

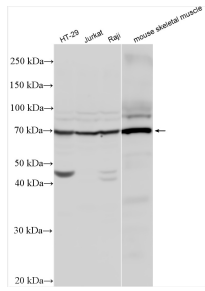
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27916-1-AP (IL-13RA1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.