

Product datasheet for **AP20672PU-N**

IL5RA Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Western Blot: 1/500~1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 50-100 of Human IL-5Ra.
Specificity:	This antibody detects endogenous levels of IL-5Ralpha protein. (region surrounding Lys68)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 48 kDa
Gene Name:	interleukin 5 receptor subunit alpha
Database Link:	Entrez Gene 3568 Human Q01344



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Background:

Interleukin 5 (IL-5) is a soluble T cell-derived factor, also known as T cellreplacing factor (TRF), that induces B cell and eosinophil growth and differentiation. IL-5 exerts its biological activity through the IL-5 receptor (IL-5R), which is composed of two chains: an alpha chain that binds IL-5 with low affinity and a beta chain that does not bind IL-5, but together with the IL-5 alpha chain, constitutes the high affinity IL-5 receptor. The cytoplasmic domain of both the alpha and beta chains is essential for signal transduction. Specifically, the membraneproximal proline-rich sequence of the cytoplasmic domain of the IL-5R receptor alpha subunit, IL-5Ralpha, is critical for the IL-5 induced proliferative response, expression of nuclear protooncogenes and tyrosine phosphorylation of cellular proteins, such as JAK1 and JAK2. Alternative splicing of the IL-5Ralpha gene produces several isoforms, including a membraneanchored isoform and a soluble isoform. The soluble isoform competes with IL-5 for binding to IL-5R and inhibits IL-5-mediated receptor activation and inflammatory mediator production, and, therefore, may be useful in treating asthma.

Synonyms:

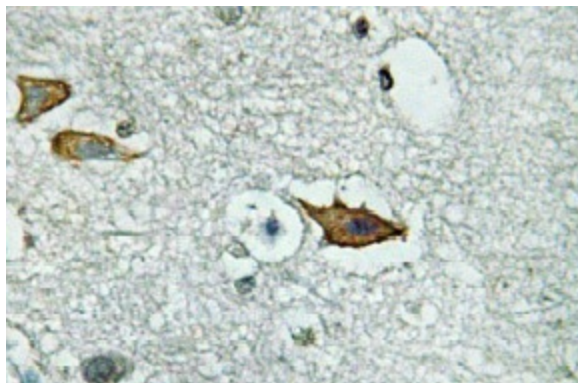
Interleukin-5 receptor subunit alpha, IL-5R-alpha, IL5 Receptor alpha

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway

Product images:

Immunohistochemistry analysis of CD125 / IL5RA Antibody Cat.-No. AP20672PU-N in Paraffin-Embedded Human pancreas tissue.