

Biotin Conjugated Anti-Human IL-2 Receptor alpha Antibody [PSH05-66]

HA722594B



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det)
Clone number:	PSH05-66

Description: Interleukin-2 receptor alpha chain (also called CD25) is the human protein encoded by the IL2RA gene. The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolysis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is currently unknown. It is a type I transmembrane protein present on activated T cells, activated B cells, some thymocytes, myeloid precursors, and oligodendrocytes. IL2RA is expressed in most B-cell neoplasms, some acute nonlymphocytic leukemias, neuroblastomas, mastocytosis and tumor infiltrating lymphocytes. It functions as the receptor for HTLV-1 and is consequently expressed on neoplastic cells in adult T cell lymphoma/leukemia. Its soluble form, called sIL-2R may be elevated in these diseases and is occasionally used to track disease progression. Infection by the protozoan *Trypanosoma cruzi* causes Chagas disease, characterized by a reduction in the amount of IL2RA expressed on the surface of immune cells. This leads to chronic immune suppression, becoming increasingly severe over the course of many years and ultimately resulting in death if left untreated.

Conjugate:	Biotin-conjugated
Immunogen:	Recombinant protein within human IL-2 Receptor alpha aa 22-240 (Extracellular).
Positive control:	Recombinant standard Human IL2RA protein (HA210771).
Subcellular location:	Membrane.
Database links:	SwissProt: P01589 Human
Recommended Dilutions:	
ELISA(Det)	Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH05-65] to Human IL2RA (Capture) (HA722385) and recombinant standard Human IL2RA protein (HA210771). The reference range value is 8.2-2000pg/ml.
Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% ProClin300.
Storage Instruction:	Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Goudy K., Aydin D., Barzaghi F., Gambineri E., Vignoli M., Ciullini Mannurita S., Doglioni C., Ponzoni M., Cicalese M.P., Bacchetta R. Human IL2RA null mutation mediates immunodeficiency with lymphoproliferation and autoimmunity. *Clin. Immunol.* 146:248-261 (2013).
2. Bezrodnik L., Caldirola M.S., Seminario A.G., Moreira I., Gaillard M.I. Follicular bronchiolitis as phenotype associated with CD25 deficiency. *Clin. Exp. Immunol.* 175:227-234 (2014).

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