

Recombinant Anti-IL3RA Antibody (V3S-0622-YC4748)

Cat. No.: V3S-0622-YC4748

Summary

Description	This product is a human monoclonal antibody that reacts with IL3RA. The antibody is expressed with mammalian cell transient expression system, serum-free and purified by affinity chromatography. The purity and integrity are tested via SDS-PAGE and SEC-HPLC analysis. Given an antigen, additional QC measures are also desired such as affinity testing and binding validation. Specifically, the antibody is provided in multiple formats for in vivo and in vitro assays. The <i>In vivo</i> version features greater than 95% purity, ultra-low endotoxin levels (<1 EU/mg or 0.1 EU/mg), and is preservative, stabilizer, and carrier protein-free.
Clonality	Monoclonal
Host Species	Human
Target Species	Human
Isotype	IgG1
Isotype Control	C67002; C43061
Secondary Antibody	C32400; C75370; C10513; C51635; C45530

Property

Expression Species	HEK293F or CHO
Conjugation	None
Purity	>95%, determined by SDS-PAGE and/or SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Protein A affinity purified
Sterility	0.2 µM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers
Storage	Store at 4°C within a week. For longer storage, aliquot and store at -20°C.

Applications

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

Application	ELISA; WB; FC
Application Notes	The antibody is recommended for detection of IL3RA by ELISA, WB, FC assays.

Target

Target	IL3RA
Alternative Name	IL3RA; interleukin 3 receptor, alpha (low affinity); IL3R; CD123; IL3RX; IL3RY; IL3RAY; hIL-3 Ra; interleukin-3 receptor subunit alpha; IL-3RA; IL-3R-alpha; CD123 antigen; IL-3R subunit alpha; IL-3 receptor subunit alpha; IL-3 receptor alpha SP2 isoform
Gene ID	3563
UniProt	P26951
Introduction	The protein encoded by this gene is an interleukin 3 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL3 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL3. This gene and the gene encoding the colony stimulating factor 2 receptor alpha chain (CSF2RA) form a cytokine receptor gene cluster in a X-Y pseudoautosomal region on chromosomes X or Y. Alternatively spliced transcript variants encoding distinct isoforms have been found. [provided by RefSeq, Jun 2012]
Research Area	Immunology; Signal Pathway
Proceedings of R&D	Diseases associated with IL3RA include Diphtheria and Hairy Cell Leukemia. Among its related pathways are RET signaling and Apoptosis Modulation and Signaling. Gene Ontology (GO) annotations related to this gene include cytokine receptor activity and interleukin-3 receptor activity. An important paralog of this gene is CSF3R.

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