Human IL-3 Rα/CD123 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: BAF841

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-3 Rα/CD123 in Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) IL-1 sRI, rhIL-1 sRII, rhIL-2 sRβ, rhIL-2 sRγ, rhIL-5 sRα, and rhIL-10 sR is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human IL-3 Rα/CD123 Extracellular domain
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human IL-3 Rα/CD123 (Catalog # 301-R3)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**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.

BACKGROUND

Interleukin 3 is a pleiotropic cytokine produced primarily by activated T cells or mast cells. IL-3 stimulates the proliferation and differentiation of hemopoietic cells including the pluripotent hematopoietic stem cells as well as various lineage-committed cells. The biological effects of IL-3 on the various cell types are mediated by the binding of IL-3 to specific cell surface receptor complexes. The functional high-affinity human IL-3 receptor is a heterodimer consisting of a ligand binding α subunit and the β subunit. The α subunit alone binds IL-3 with low affinity. The β subunit does not bind IL-3 by itself but is required for the high-affinity binding of IL-3 to the heterodimeric receptor complex. The β subunit has also been found to be a component of the high-affinity receptor complex for IL-5 and GM-CSF. Both the α and the β subunits are members of the cytokine receptor superfamily.

References:

1. Ogorochi, T. and A. Miyajima (1994) in *Guidebook to Cytokines and Their Receptors*, N.A. Nicola, ed. Oxford University, New York p. 40.

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