

Human IL-3R alpha/CD123 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF841

DESCRIPTION

Species Reactivity	Human	
Specificity	Detects human IL-3 Rα/CD123 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 2% cross-reactivity with recombinant human (rh) IL-2 sRβ, rhIL-2 sRγ, and rhIL-6 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	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either Ivophilized or as a 0.2 μm filtered solution in PBS.	

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	0.5 μg/mL	HDLM-2 human Hodgkin's lymphoma cell line, TF-1 human
		erythroleukemic cell line, and THP-1 human acute monocytic
		leukemia cell line

DATA

Western Blot



Detection of Human IL-3R alpha/CD123 by Western Blot. Western blot shows lysates of HDLM-2 human Hodgkin's lymphoma cell line, TF-1 human erythroleukemic cell line, and THP-1 human acute monocytic leukemia cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human IL-3R alpha/CD123 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF841) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for IL-3R alpha/CD123 at approximately 70-75 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
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.





Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449