

## **Human IL-5 Biotinylated Antibody**

Monoclonal Rat IgG<sub>2A</sub> Clone # JES1-5A10 Catalog Number: BAM6051

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects recombinant human IL-5 in ELISAs and Western blots. In sandwich immunoassays, no cross-reactivity with recombinant human (rh) IL-3, rhGM-CSF, or recombinant mouse IL-5 is observed.
Source	Monoclonal Rat IgG <sub>2A</sub> Clone # JES1-5A10
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	COS-7 African green monkey SV40 transformed kidney fibroblast-like cell line-derived recombinant human IL-5
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.

Human IL-5 Sandwich Immunoassay Reagent
ELISA Capture 2-8 µg/mL Human/Mc

 ELISA Capture
 2-8 μg/mL
 Human/Mouse IL-5 Antibody (Catalog # MAB405)

 ELISA Capture
 2-8 μg/mL
 Human/Mouse IL-5 Antibody (Catalog # MAB405R)

 ELISA Detection
 0.5-2.0 μg/mL
 Human IL-5 Biotinylated Antibody (Catalog # BAM6051)

 Standard
 Recombinant Human IL-5 (Catalog # 205-IL)

PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 0.5 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.
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>
	<ul> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Interleukin 5 is a T cell-derived factor that promotes the proliferation, differentiation and activation of eosinophils. In mice, IL-5 has also been shown to be a growth and differentiation factor for B cells. Various names previously used to describe IL-5 include: T cell replacing factor (TRF), B cell growth factor II (BCGFII), B cell differentiation factor  $\mu$  (BCDF  $\mu$ ), eosinophil differentiation factor (EDF) and eosinophil colony-stimulating factor (E $_{o}$ -CSF). Biologically active IL-5 is a disulfide-linked homodimer. The cDNAs for murine and human IL-5 encode precursor proteins with signal peptides that are cleaved to form mature proteins containing 113 and 115 amino acid residues, respectively. Murine and human IL-5 are 70% identical in their amino acid sequences and show species cross-reactivity. The genes for human and mouse IL-5 have been mapped to chromosome 5 and chromosome 11, respectively; closely linked to the genes for IL-3, IL-4 and GM-CSF.

IL-5 exerts its activity on target cells by binding to specific cell surface receptors. The functional high-affinity receptor for human IL-5 has been shown to be composed of a low-affinity IL-5 binding α-subunit and a non-binding common β-subunit that is shared with the high-affinity receptors for GM-CSF and IL-3.

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