

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

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF205

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human IL-5 in Western blots. In Western blots, approximately 25% cross-reactivity with recombinant mouse IL-5 is observed.		
	non-reducing conditions.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human IL-5		
	lle20-Ser134		
	Accession # P05113		
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 diluti	ons should be determined by each laboratory for each	ch application.	General Protocols are available in the Technical Information section on our website.
	Recommend Concentration		Sample
Western Blot		on	Sample  Recombinant Human IL-5 (Catalog # 205-IL)
	Concentration	on	·
PREPARATION AND	Concentration 0.1 µg/mL	on	·
	Concentration	on	·
PREPARATION AND	Concentration 0.1 μg/mL  STORAGE  Reconstitute at 0.2 mg/mL in sterile PE	on 3S.	·
PREPARATION AND S	Concentration 0.1 μg/mL  STORAGE  Reconstitute at 0.2 mg/mL in sterile PE	on 3S. perature. U	Recombinant Human IL-5 (Catalog # 205-IL)
PREPARATION AND S Reconstitution Shipping	Concentration 0.1 µg/mL  STORAGE  Reconstitute at 0.2 mg/mL in sterile PE  The product is shipped at ambient temp	on 3S. perature. U	Recombinant Human IL-5 (Catalog # 205-IL)  Ipon receipt, store it immediately at the temperature recommended below.  Ited freeze-thaw cycles.
PREPARATION AND S Reconstitution Shipping	Concentration 0.1 µg/mL  STORAGE  Reconstitute at 0.2 mg/mL in sterile PE The product is shipped at ambient temp Use a manual defrost freezer and av	3S. perature. U roid repea -20 to -70	Recombinant Human IL-5 (Catalog # 205-IL)  Ipon receipt, store it immediately at the temperature recommended below.  ted freeze-thaw cycles.  °C as supplied.

## 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.

