

Mouse IL-5 Antibody

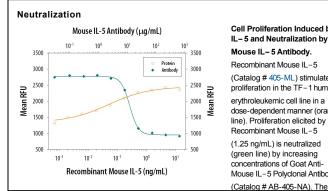
Polyclonal Goat IgG Catalog Number: AB-405-NA

Mouse
Detects mouse IL-5 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) IL-5 is observed and 2% cross-reactivity with rhGM-CSF is observed. Neutralizes the biological activity of recombinant mouse IL-5 and will not neutralize the biological activity of recombinant human IL-5.
Polyclonal Goat IgG
Protein A or G purified
S. frugiperda insect ovarian cell line Sf 21-derived recombinant mouse IL-5
<0.15 EU per 1 µg of the antibody by the LAL method.
Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. 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	1 μg/mL	Recombinant Mouse IL-5 (Catalog # 405-ML)	
Neutralization	Measured by its ability to neutralize IL-5-induced proliferation in the TF-1 human erythroleukemic cell line. Kitamura, T. <i>et al.</i> (1989) J. Cell Physiol. 140 :323. The Neutralization Dose (ND ₅₀) is typically 12-18 μg/mL in the		
	presence of 1.25 ng/m	nL Recombinant Mouse IL-5.	



Cell Proliferation Induced by IL-5 and Neutralization by Mouse IL-5 Antibody. Recombinant Mouse IL-5 (Catalog # 405-ML) stimulates proliferation in the TF-1 human erythroleukemic cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Mouse IL-5 (1.25 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse IL-5 Polyclonal Antibody

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 1 mg/mL in sterile PBS.	

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below Shipping

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.

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 μ (BCDF μ), 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.

