

DESCRIPTION

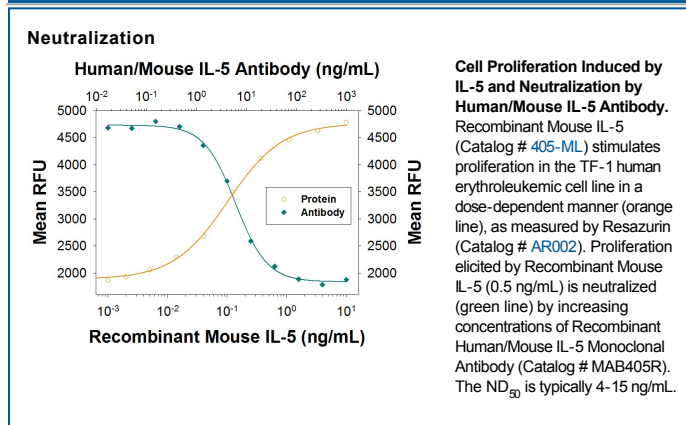
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse IL-5 in ELISAs. In sandwich immunoassays with BAM6051 as the detection antibody, no cross-reactivity with recombinant human (rh) IL-3, rhGM-CSF, or recombinant mouse (rm) IL-5 is observed. In sandwich ELISAs with BAM705 as the detection antibody, no cross-reactivity with rhIL-5, rmIL-3, or rmGM-CSF is observed.
Source	Recombinant Monoclonal Rat IgG ₁ Clone # TRFK5R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse T cell clone-derived partially purified recombinant mouse IL-5
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Supplied as a solution in PBS. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

Human IL-5 Sandwich Immunoassay		Reagent
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)
Mouse IL-5 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human/Mouse IL-5 Antibody (Catalog # MAB405R)
ELISA Detection	0.5-2.0 µg/mL	Mouse IL-5 Biotinylated Antibody (Catalog # BAM705)
Standard		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) <i>J. Cell Physiol.</i> 140 :323. The Neutralization Dose (ND ₅₀) is typically 4-15 ng/mL in the presence of 0.5 ng/mL Recombinant Mouse IL-5.	

DATA



PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. 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. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C, as supplied. ● 1 month, 2 to 8 °C under sterile conditions after opening. ● 6 months, -20 to -70 °C under sterile conditions after opening.

BACKGROUND

IL-5 is a disulfide-linked homodimeric cytokine that is secreted by T cells. IL-5 promotes the proliferation, differentiation, and activation of eosinophils. It binds to a receptor complex consisting of one IL-5 specific α chain and one non-binding common β chain that is shared with the receptors for GM-CSF and IL-3.