

DESCRIPTION

Species Reactivity	Feline
Specificity	Detects feline IL-5 in ELISAs. In sandwich immunoassays, no cross-reactivity with recombinant feline GM-CSF, recombinant equine, canine, mouse, human, or porcine IL-5 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 604312
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant feline IL-5 Ile20-Ser134 Accession # O77515
Endotoxin Level	<0.01 EU per 1 µg of the antibody by the LAL method.
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 as a 0.2 µm filtered solution in PBS.

APPLICATIONS

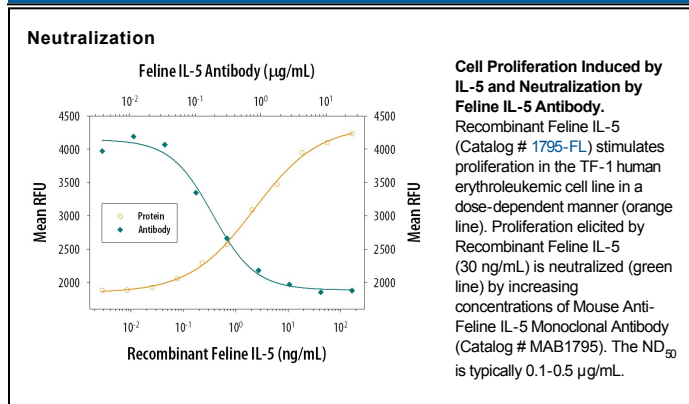
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Feline IL-5 Sandwich Immunoassay

ELISA Capture	ELISA Detection	Standard	Reagent
2-8 µg/mL	0.5-2.0 µg/mL		Feline IL-5 Antibody (Catalog # MAB1795)
			Feline IL-5 Biotinylated Antibody (Catalog # BAM17951)
			Recombinant Feline IL-5 (Catalog # 1795-FL)

Neutralization Measured by its ability to neutralize IL-5-induced proliferation in the TF-1 human erythroleukemic cell line. Kitamura, T. *et al.* (1989) *J. Cell Physiol.* **140**:323. The Neutralization Dose (ND₅₀) is typically 0.1-0.5 µg/mL in the presence of 30 ng/mL Recombinant Feline IL-5.

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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. <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 reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Interleukin-5 (IL-5) is a 40 kDa secreted, heparin-binding, disulfide-linked homodimeric glycoprotein that belongs to the α-helical group of cytokines. It promotes the proliferation, differentiation and activation of eosinophils. The 115 amino acid (aa) mature feline IL-5 shares 70% and 59% aa sequence identity with human and mouse IL-5, respectively. The IL-5 receptor is a complex of an IL-5-specific ligand-binding α subunit with a signal transducing common β subunit (βc) that is shared with receptor complexes for IL-3 and GM-CSF.