

DESCRIPTION

Species Reactivity	Canine
Specificity	Detects canine IL-3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant IL-3 from human, mouse, or rat is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 662008
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant canine IL-3 Arg24-Pro143 Accession # Q9BDX4
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.

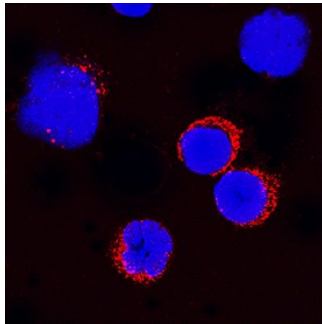
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunocytochemistry	20-30 µg/mL	See Below

DATA

Immunocytochemistry



IL-3 in Canine PBMCs. IL-3 was detected in immersion fixed canine peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Canine IL-3 Monoclonal Antibody (Catalog # MAB6658) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

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-3 is a pleiotrophic factor produced primarily by activated T cells that can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. IL-3 exerts its biological activities via a heterodimeric receptor composed of an IL-3 specific α chain and common β chain that is shared with the IL-5 and GM-CSF high-affinity receptors. Receptors for IL-3 are present on bone marrow progenitors, and several mature myeloid cell types. Mature canine IL-3 shares <40% amino acid sequence identity with IL-3 of other mammals.