

Canine IL-10 Antibody

Monoclonal Mouse IgG₁ Clone # 138128 Catalog Number: MAB7352

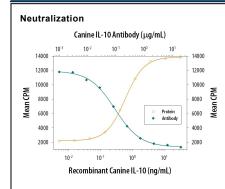
DESCRIPTION	
Species Reactivity	Canine
Specificity	Detects canine IL-10 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 138128
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant canine IL-10 Ser20-Ile179 Accession # XP_855560
Endotoxin Level	<0.10 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 either lyophilized or 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
Western Blot	1 μg/mL	Recombinant Canine IL-10 (Catalog # 735-CL)
Neutralization	Snipes, L. et al. (1991	v to neutralize IL-10-induced proliferation in the MC/9-2 mouse mast cell line. Thompson-) J. Exp. Med. 173 :507. The Neutralization Dose (ND ₅₀) is typically 0.1-0.25 μg/mL in the Recombinant Canine IL-10.

DATA



Cell Proliferation Induced by IL-10 and Neutralization by Canine IL-10 Antibody. Recombinant Canine IL-10 (Catalog # 735-CL) stimulates proliferation in the MC/9-2 mouse mast cell line in a dosedependent manner (orange line). Proliferation elicited by Recombinant Canine IL-10 (2 ng/mL) is neutralized (green line) by increasing concentrations of Canine IL-10 Monoclonal Antibody (Catalog # MAB7352). The ND_{50} is typically 0.1-0.25 µg/mL.

	TORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

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 $^\circ$ C

Stability & Storage U

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

BACKGROUND

IL-10, initially designated cytokine synthesis inhibitory factor (CSIF), was originally identified as a product of murine T helper 2 (Th2) clones that inhibited the cytokine production by Th1 clones. The canine homologue of mouse IL-10 has been cloned. Canine IL-10 shares 80% amino acid sequence homology with human IL-10 and 72% sequence homology with mouse IL-10.

IL-10 is a pleiotropic cytokine that can exert either immunostimulatory or immunosuppressive effects on a variety of cell types. It is a potent immunosuppressant of macrophage functions. *In vitro*, IL-10 can inhibit the accessory function and antigen-presenting capacity of monocytes by, among other effects, downregulating class II MHC expression. Thus, IL-10 can inhibit monocyte/macrophage-dependent, antigen stimulated cytokine synthesis (especially IFN-γ) by human PBMNC and NK, and mouse Th1 cells. Additionally, IL-10 is a potent inhibitor of monocyte/macrophage activation and its resultant cytotoxic effects. As an immunostimulatory cytokine, IL-10 can act on B cells to enhance their viability, cell proliferation, Ig secretion, and class II MHC expression. Aside from B lymphocytes, IL-10 is also a growth co-stimulator for thymocytes and mast cells, as well as an enhancer of cytotoxic T cell development.

References:

1. Moore, K.W. et al. (1993) Annu. Rev. Immunol. 11:165.

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