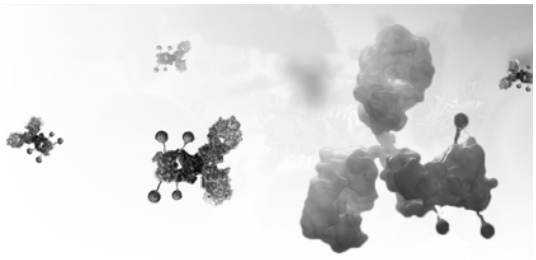

Goat anti Canine IL10 polyclonal antibody [Biotin] (CABT-L124)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects canine IL-10 in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross-reactivity with recombinant feline (rfe) IL-10, recombinant human (rh) IL-10, recombinant mouse (rm) IL-10, recombinant porcine (rp) IL-10, and recombinant rat (rr) IL-10 is observed.
Target	IL-10
Immunogen	E. coli-derived recombinant canine IL-10, Ser20-Ile179, Accession #XP_855560
Isotype	IgG
Source/Host	Goat
Species Reactivity	Canine
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	ELISA(Det), WB
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Format	Lyophilized
Size	50 µg
Buffer	PBS with BSA
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of

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

BACKGROUND

Introduction	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-gamma) 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.
Keywords	CSIF;CSIFMGC126450;Cytokine synthesis inhibitory factor;IL10;IL-10;IL10A;IL-10MGC126451;interleukin 10;interleukin-10;TGIF

GENE INFORMATION

Entrez Gene ID	403628
UniProt ID	P48411

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