

Canine IL-10 Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF735R

100 µg

DESCRIPTION				
Species Reactivity	Canine			
Specificity	Detects canine IL-10 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant feline IL-10, recombinant human IL-10, recombinant porcine IL-10 is observed and 5% cross-reactivity with recombinant mouse			
Source	Polyclonal Goat IgG			
Purification	Antigen Affinity-purified			
Immunogen	E. coli-derived recombinant canine IL-10 (R&D Systems, Catalog # 735-CL) Ser20-Ile179 Accession # XP_855560			
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm			
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide			
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.			

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	ity & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

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.

PRODUCT SPECIFIC NOTICES

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