

DESCRIPTION

Species Reactivity	Equine
Specificity	Detects equine IL-10 in ELISAs and Western blots. In sandwich immunoassays, less than 1% cross-reactivity with recombinant canine IL-10 and recombinant porcine IL-10 is observed and less than 0.4% cross-reactivity with recombinant human IL-10, recomb
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant equine IL-10 Ser19-Asn178 Accession # Q28374
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

BACKGROUND

Interleukin 10 (IL-10), initially designated cytokine synthesis inhibitory factor (CSIF), was originally identified as a product of mouse T helper 2 (Th2) cells that inhibited the cytokine production by Th1 cells. It is a pleiotropic cytokine that regulates the immune and inflammatory responses of hematopoietic cells (1, 2). IL-10 has immunosuppressive activities and has been shown to inhibit the effector functions of monocyte/macrophage and CD4⁺ T cells. Conversely, IL-10 has immunostimulatory activities and can induce the proliferation and cytotoxic activity of CD8⁺ T cells and NK cells. IL-10 also regulates the growth and differentiation of B cells, mast cells, dendritic cells and neutrophils (1). The biological activities of IL-10 is mediated by the heteromeric IL-10 receptor complex, which is composed of the ligand-binding IL-10R α and the accessory IL-10R β subunits. Both subunits belong to the class II cytokine receptor family. IL-10R β is also utilized as a subunit in the heterodimer receptor complex for IL-22, IL-28 and IL-29. Besides IL-10, five novel cytokines (IL-19, -20, -22, -24, and -26) that share structural and limited sequence homology with IL-10 have been identified. These proteins constitute the IL-10 cytokine family (3).

Equine IL-10 cDNA encodes a 178 amino acid residue (aa) precursor protein with an 18 aa signal peptide and 160 aa mature protein that contains two potential N-linked glycosylation sites. Analogous to human IL-10, equine IL-10 likely exists as nondisulfide-linked homodimers. Equine IL-10 shares 71% and 78% aa sequence homology with mouse and human IL-10, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.