

DESCRIPTION

Species Reactivity	Canine
Specificity	Detects canine IL-2 in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross-reactivity with recombinant human IL-2, recombinant mouse IL-2, recombinant rat IL-2, recombinant feline IL-2, recombinant cotton rat IL-2, recombinant bo
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant canine IL-2 (R&D Systems, Catalog # 1815-CL) Ala21-Thr155 with a Cys147Ser substitution Accession # Q29416
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.

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.

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 2 was initially identified as a T cell growth factor that is produced by T cells following activation by mitogens or antigens. Since then, it has been shown that IL-2 can also stimulate the growth and differentiation of B cells, natural killer (NK) cells, lymphocyte activated killer (LAK) cells, monocytes/macrophages, and oligodendrocytes. The biological activity of IL-2 is mediated by the binding to cell surface receptor complexes composed of three subunits designated as α , β , and γ subunits. IL-2 binds the α subunit with low affinity. The functional high affinity IL-2 receptor is a heterotrimeric complex of the α , β , and γ subunits. IL-2 binds with intermediate affinity to the complex containing the β and γ subunits, which is also capable of transducing IL-2 signals. In T cells, the β and γ subunits are shared with the IL-15 receptor complex. The γ subunit of the IL-2 receptor complex has also been shown to be a subunit of the receptor complexes of IL-4, IL-7, and IL-9. At the amino acid sequence level, canine IL-2 shares 90%, 86%, 85%, 76%, and 75% sequence similarities to feline, human, equine, mouse, and bovine IL-2, respectively.

PRODUCT SPECIFIC NOTICES

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