Canine IL-5 Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1964V
100 µg

DESCRIPTION

Species Reactivity	Canine
Specificity	Detects canine canine IL-5 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant canine IL-5 Phe20-Ser134 Accession # Q95J76
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.*

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-5 (IL-5) is a 40-45 kDa secreted disulfide-linked homodimeric glycoprotein that plays an important role in the differentiation, growth, and function of eosinophils. It also primes basophils for histamine and leukotriene release. In mice, IL-5 also induces the proliferation, differentiation, and immunoglobulin production of B cells especially B-1 cells that constitutively express IL-5 receptor α. IL-5 is primarily produced by $CD4^+$ Th2 cells. Other cell types, including mast cells, visceral smooth muscle cells, bronchial epithelium, $CD16^+$ NK cells, eosinophils and γδ T cells, can also produce IL-5. Canine IL-5 is synthesized as a 134 amino acid (aa) precursor that contains a 21 aa signal sequence and a 113 aa mature segment. Mature canine IL-5 shares 62%, 66%, 85%, 84%, 58%, and 56% aa sequence identity with mature human, guinea pig, porcine, feline, mouse, and rat IL-5, respectively. The receptor for IL-5 consists of a 60 kDa ligand-binding subunit (IL-5 Rα) and a 120 kDa signal-transducing subunit (β_c) (1-7).

PRODUCT SPECIFIC NOTICES

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