

DESCRIPTION

Species Reactivity	Canine
Specificity	Detects canine IL-18/IL-1F4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 50% cross-reactivity with recombinant porcine IL-18 is observed, 20% cross-reactivity with recombinant rhesus macaque IL-18 is observed,
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant canine IL-18/IL-1F4 Tyr37-Ser193 Accession # Q9XSR0
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.

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

IL-18, also known as interferon-gamma-inducing factor (IGIF) and IL-18, is an 18 kDa protein belonging to the IL-1 superfamily. It is synthesized as a 24 kDa pro-IL-18 and is processed by caspase 1 to form the active protein. IL-18 is produced by multiple cell types including monocyte/macrophages, dendritic cells, osteoblasts and keratinocytes. Mature IL-18 synergizes with IL-12 to induce differentiation of naïve Th cells into Th1 cells. It also plays multiple roles in other immune cell types including macrophages, NK cells and B cells. Canine and human mature IL-18 share 73% amino acid sequence identity.

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