

DESCRIPTION

Species Reactivity	Canine
Specificity	Detects canine IL-18/IL-1F4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) IL-18, recombinant mouse (rm) IL-18, recombinant porcine IL-18, recombinant rat IL-18, recombinant rhesus macaque IL-18, rhIL-36Ra, rhIL-1F7, rhIL-36 gamma, rhIL-1F10, rmIL-1ra, rmIL-36 gamma, or rmIL-36 alpha is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 314820
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant canine IL-18/IL-1F4 Tyr37-Ser193 Accession # Q9XSR0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Canine IL-18/IL-1F4

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Interleukin 18, also known as interferon-gamma-inducing factor (IGIF) or IL-1γ, is an 18 kDa member of the IL-1 superfamily which shares biologic activities with IL-12. IL-18 is expressed by liver cells, monocyte/macrophages, osteoblasts and keratinocytes. Mature canine IL-18 shares 73% sequence identity with human IL-18. Caspase-1 (IL-1 beta-converting enzyme) has been shown to process pro-IL-18 to active IL-18. Human IL-18 has been shown to enhance NK cell activity, induce the production of IFN-γ and GM-CSF and inhibit the production of IL-10 by PBMCs.