

Canine IL-18/IL-1F4 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2924

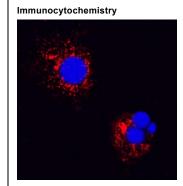
DESCRIPTION			
Species Reactivity	Canine		
Specificity	Detects canine IL-18/IL-1F4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 50% cross-reactivity with recombinant porcine IL-18 is observed, 20% cross-reactivity with recombinant rhesus macaque IL-18 is observed, 15% cross-reactivity with recombinant human IL-18 is observed, and 5% cross-reactivity with recombinant mouse IL-18 and recombinant rat IL-18 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-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	0.1 μg/mL	Recombinant Canine IL-18/IL-1F4
Immunocytochemistry	5-15 μg/mL	See Below

DATA



IL-18/IL-1F4 in Canine PBMCs.
IL-18/IL-1F4 was detected in immersion fixed canine peripheral blood mononuclear cells (PBMCs) using Goat Anti-Canine
IL-18/IL-1F4 Antigen Affinity-purified
Polyclonal Antibody (Catalog # AF2924) at
15 μg/mL for 3 hours at room temperature.
Cells were stained using the
NorthernLights™ 557-conjugated Anti-Goat
IgG Secondary Antibody (red; Catalog #
NL001) and counterstained with DAPI (blue).
Specific staining was localized to cytoplasm
and cell secretions. View our protocol for
Fluorescent ICC Staining of Non-adherent
Cells.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.2 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

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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