

## DESCRIPTION

<b>Species Reactivity</b>	Canine
<b>Specificity</b>	Detects canine IL-18/IL-1F4 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 314811
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant canine IL-18/IL-1F4 Tyr37-Ser193 Accession # Q9XSR0
<b>Formulation</b>	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.

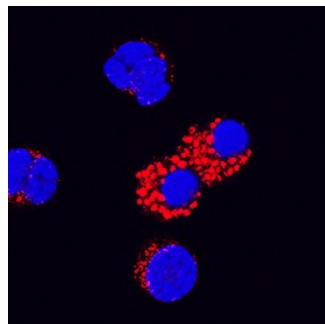
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	Recombinant Canine IL-18/IL-1F4
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below

## DATA

### Immunocytochemistry



#### IL-18/IL-1F4 in Canine PBMCs.

IL-18/IL-1F4 was detected in immersion fixed canine peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Canine IL-18/IL-1F4 Monoclonal Antibody (Catalog # MAB29241) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.