

Porcine IL-10 Antibody

Monoclonal Mouse IgG_{2B} Clone # 262715 Catalog Number: MAB6932

| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Porcine | |
| Specificity | Detects porcine IL-10 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant canine IL-10, recombinant feline IL-10, recombinant human IL-10, and recombinant viral IL-10 is observed and no cross-reactivity with recombinant cotton rat IL-10, recombinant equine IL-10, recombinant mouse IL-10, recombinant rat IL-10, or recombinant human IL-22 is observed. | |
| Source | Monoclonal Mouse IgG _{2B} Clone # 262715 | |
| Purification | Protein A or G purified from hybridoma culture supernatant | |
| Immunogen | E. coli-derived recombinant porcine IL-10 Ser19-Asn175 Accession # Q29055 | |
| 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 |
|---------------------|---------------------------|-----------|
| Immunocytochemistry | 8-25 μg/mL | See Below |

DATA

Immunocytochemistry



Treated



Untreated (control)

IL-10 in Porcine PBMCs.

IL-10 was detected in immersion fixed porcine peripheral blood mononuclear cells treated with calcium ionomycin and PMA using Mouse Anti-Porcine IL-10 Monoclonal Antibody (Catalog # MAB6932) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated 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

| 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

IL-10, initially designated cytokine synthesis inhibitory factor (CSIF), was originally identified as a product of murine T helper 2 (Th2) clones that inhibited the cytokine production by Th1 clones which are dependent upon stimulation with antigen in the presence of antigen presenting cells (APC). Murine IL-10 is produced by Th2 cells, activated fetal thymocytes, macrophages, keratinocytes, and LY-1* (CD5*) and normal B cells. Human IL-10 has cross-species activities and is active on mouse cells. Murine IL-10 is species-specific and does not act on human cells. Porcine IL-10 shares 71% and 78% amino acid sequence identity with mouse and human IL-10, respectively. IL-10 is a pleiotropic cytokine that can exert either immunostimulatory or immunosuppressive effects on a variety of cell types. It is a potent immunosuppressant of macrophage functions. *In vitro*, IL-10 can inhibit the accessory function and antigen-presenting capacity of monocytes by, among other effects, down-regulating class II MHC expression. Thus, IL-10 can inhibit monocyte/macrophage-dependent, antigen stimulated cytokine synthesis (especially IFN-γ) by human PBMNC and NK, and mouse Th1 cells. Additionally, IL-10 is a potent inhibitor of monocyte/macrophage activation and its resultant cytotoxic effects. As an immunostimulatory cytokine, IL-10 can act on B cells to enhance their viability, cell proliferation, Ig secretion, and class II MHC expression. Aside from B lymphocytes, IL-10 is also a growth co-stimulator for thymocytes and mast cells, as well as an enhancer of cytotoxic T cell development.

References:

1. Moore, K.W. et al. (1993) Annu. Rev. Immunol. 11:165.

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