SONY

Product Data Sheet

APC anti-human IL-9

Catalog # / Size: 3138065 / 25 tests
3138070 / 100 tests

Clone: MH9A4

Isotype: Mouse IgG2b, κ

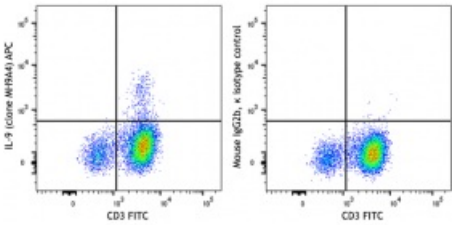
Immunogen: Baculovirus-expressed, recombinant human IL-9

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



PMA and ionomycin-stimulated (6 hours, in the presence of monensin) Th2-polarized human lymphocytes were surface stained with CD3 FITC. Cells were fixed, permeabilized and intracellularly stained with IL-9 (clone MH9A4) APC (left), or mouse IgG2b, κ APC isotype control (right).

Applications:

Applications: Intracellular Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular flow cytometry using our True-Phos™ Perm Buffer in Cell Suspensions Protocol. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Application Notes: **ELISA Capture[2]:** The purified MH9A4 antibody is useful as the capture antibody in a human IL-9 sandwich ELISA assay, when used in conjunction with the biotinylated MH9D1 antibody as the detecting antibody.

Application References:

1. Jenmalm M, *et al.* 2001. *Clin. Exptl. Aller.* 31:1528.
2. Faulkner H, *et al.* 2002. *J. Infec. Diseas.* 185:665.
3. Chen J, *et al.* 2008. *Blood* 111:5163. PubMed
4. Chang HC, *et al.* 2010. *Nat. Immunol.* 11:527. (ELISA) PubMed
5. Lozano E, *et al.* 2012. *J Immunol.* 188:3869. PubMed.

Description: IL-9 is a potent, T cell-derived, T cell growth factor which can also enhance mast cell activity and IL-3- or IL-4- dependent proliferation of bone marrow-derived mast cells. IL-9 synergizes with erythropoietin to promote erythroid colony formation. IL-9 has also been reported to protect human T cells from apoptosis induced by IL-2 withdrawal. IL-9 is upregulated in human eosinophils by TNF-α and IL1-β. IL-9 has been reported to downregulate the oxidative burst in activated human alveolar macropahges and induce TGF-β production. The MH9A4 antibody reacts with human IL-9. The MH9A4 antibody can neutralize the bioactivity of natural or recombinant IL-9.

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Antigen References:
1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
2. Quesniaux V. 1992. *Research Immunology* 143:385.
3. Renauld J, *et al.* 1993. *Adv. Immunol.* 54:79.
4. Yang Y. 1992. *Leuk. Lymphoma* 8:441.