

Alexa Fluor® 647 anti-human IL-9

Catalog # / Size: 3138035 / 25 tests
3138040 / 100 tests

Clone: MH9A4

Isotype: Mouse IgG2b, κ

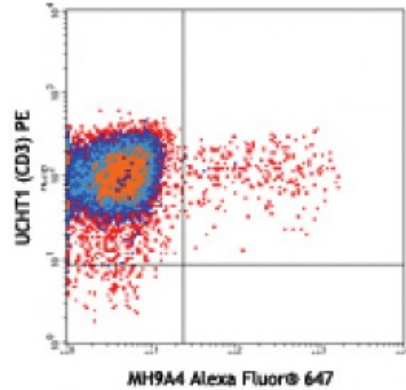
Immunogen: Baculovirus-expressed, recombinant human IL-9

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.

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

Concentration: Lot-specific



PMA/ionomycin-stimulated TH2 polarized lymphocytes intracellularly stained with anti-CD3 (UCHL1) PE and MH9A4 Alexa Fluor® 647

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

Application Notes: 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.

Flow Cytometry: The fluorochrome-labeled MH9D1 antibody is useful for intercellular immunofluorescent staining and flow cytometric analysis to identify human IL-9-producing cells in mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

For human IL-9 neutralization assay, the LEAF™ purified MH9D1 antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for neutralization of human IL-9 bioactivity.

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](#)

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 macrophages 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.

**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. Renaud J, *et al.* 1993. *Adv. Immunol.* 54:79.
4. Yang Y. 199