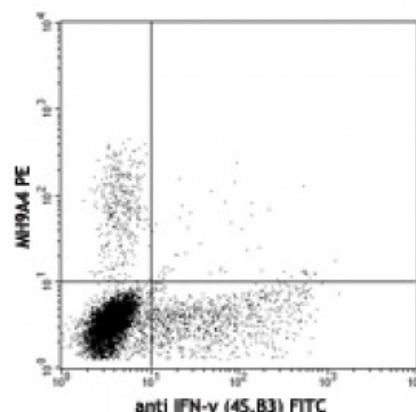


PE anti-human IL-9

| | |
|--------------------------|---|
| Catalog # / Size: | 3138025 / 100 tests 3138015 / 50 µg 3138020 / 25 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 PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody. |
| Formulation: | test sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA). microg size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| Concentration: | microg sizes: 0.2 mg/ml test sizes: lot-specific |



Enriched human CD4+ T cells were stimulated with PMA+ionomycin, then intracellular stained with anti-IFN- γ (4S.B3) FITC and MH9A4 PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA Capture2:** 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 (Cat. No. 507702) antibody as the detecting antibody. **Flow Cytometry:** The fluorochrome-labeled MH9A4 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.

Application References: 1. Jenmalm M, *et al.* 2001. *Clin. Exptl. Aller.* 31:1528.
2. Faulkner H, *et al.* 2002. *J. Infec. Diseases.* 185:665.
3. 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 recently characterized Th-9 helper cell lineage is characterized by the production of IL-9. 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