BioLegend
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Product Data Sheet

PE anti-human IL-9

Catalog # / Size: 507604 / 25 tests
507603 / 50 µg
507605 / 100 tests

Clone: MH9A4

Isotype: Mouse IgG2b, κ

Immunogen: Baculovirus-expressed, recombinant human IL-9

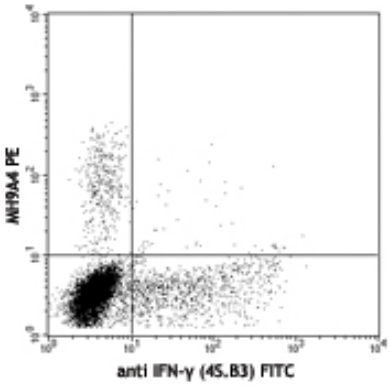
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with 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).
µg size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: test sizes: lot-specific; µg size: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Enriched human CD4+ T cells were stimulated with PMA+ionomycin, then intracellular stained with anti-IFN-Î³ (4S.B3) FITC and MH9A4 PE

Applications:

Applications: ICFC - *Quality tested*

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 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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 (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. Diseas.* 185:665.
3. Chang HC, *et al.* 2010. *Nat. Immunol.* 11:527. (ELISA) PubMed

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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. Renauld J, *et al.* 1993. *Adv. Immunol.* 54:79.
4. Yang Y. 1992. *Leuk. Lymphoma* 8:441.

Related Products:

Product	Clone	Application
PE Mouse IgG2b, κ Isotype Ctrl	MPC-11	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
Fixation Buffer		ICC, ICFC
Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC
RBC Lysis Buffer (10X)		FC, ICFC
Brefeldin A Solution (1,000X)		ICFC
Monensin Solution (1,000X)		ICFC

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587