BioLegend
The path to legendary discovery™

Product Data Sheet

LEAF™ Purified anti-human IL-9

Catalog # / Size: 512004 / 500 µg
Clone: MH9D1
Isotype: Mouse IgG1, κ
Immunogen: Baculovirus-expressed, recombinant human IL-9
Reactivity: Human
Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.
Concentration: 1.0 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: ELISA - *Quality tested*
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Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay.

Application Notes: ELISA Detection[4]: The biotinylated MH9D1 antibody is useful as a detection antibody for a human IL-9 sandwich ELISA assay, when used in conjunction with Purified MH9A4 antibody as the capture antibody.
Neutralization[2,3]: The LEAF™Purified 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. Personal comunication with developer.
3. Gounni AS, *et. al,* 2004. *J. Immunol.* 173:2771.
4. Faulkner H, *et al.* 2002. *J. Infec. Diseas.* 185:665.
5. 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 MH9A3 antibody reacts with human IL-9. The MH9A3 antibody can inhibit IL-9 bioactivity *in vitro*.

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.

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