

Product Data Sheet

Biotin anti-human IL-3

Catalog # / Size: 500604 / 500 µg

Clone: BVD3-1F9

Isotype: Rat IgG1, κ

Immunogen: Yeast-expressed, recombinant human IL-3

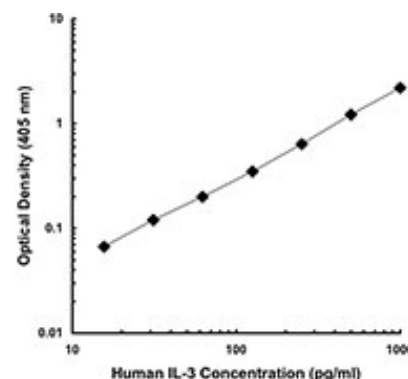
Reactivity: Human

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Applications:

Applications: ELISA Detection, ELISPOT Detection

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.5-2.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of human IL-3 protein ranging from 2000 to 15 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA^{1,3,6} or ELISPOT⁴ Detection:** The biotinylated BVD3-1F9 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified BVD8-3G11 (Cat. No. 500502) antibody as the capture antibody.

Flow Cytometry: The fluorochrome-labelled BVD3-1F9 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-3 -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

Additional reported applications (for the relevant formats) include: immunoprecipitation⁶, Western blotting⁶, neutralization^{1,6}, immunohistochemical staining^{5,7} of paraformaldehyde-fixed, saponin-treated frozen tissue sections, and immunocytochemistry.

- Application References:**
1. Abrams J, *et al.* 1992. *Immunological Reviews* 127:5.
 2. Abrams J, *et al.* 1994. *Eosinophils in Allergy and Inflammation*. Marcel Dekker New York. p.133.
 3. Abrams J. 1995. *Curr. Prot. Immunol.* 6:20.
 4. Mahanty S, *et al.* 1992. *J. Immunol.* 148:3567.
 5. Andersson U, *et al.* 1993. *Detection and quantification of gene expression*. New York: Springer-Verlag.
 6. Kaushansky K. 1992. *J. Clin. Invest.* 90:1879.
 7. Andersson J, *et al.* 1994. *Immunology* 83:16.

Description: IL-3 is a highly species-specific pleiotropic factor produced primarily by activated T cells though also by mast cells, keratinocytes, and astrocytes, which stimulates colony formation of megakaryocytes, neutrophils, and macrophages from bone marrow cultures. The BVD3-1F9 antibody can neutralize the bioactivity of natural or recombinant IL-3.

- Antigen References:**
1. Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press San Diego.
 2. Frendl G. 1992. *Int. J. Immunopharmacol.* 14:421.
 3. Ihle J. 1992. *Chem. Immunology* 51:65.

Related Products:

Product
LEAF™ Purified anti-human IL-3

Purified anti-human IL-3
Recombinant Human IL-3
HRP Avidin
TMB Substrate Reagent Set
ELISA Assay Diluent (5X)

Clone

BVD8-3G11

BVD8-3G11
rh IL-3
Avidin

Application

ELISA Capture, ELISPOT
Capture, IP, Neut, WB
ELISA Capture, IP, WB
BA, ELISA
ELISA, ELISPOT, IHC, WB
ELISA
ELISA



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