

## Rat Anti-Human IL-3

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
10115-01	Purified (UNLB) Antibody	0.5 mg
10115-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg

### DESCRIPTION

<b>CLONE</b>	BVD8-3G11
<b>IMMUNOGEN</b>	Yeast-expressed recombinant human IL-3
<b>ISOTYPE</b>	Rat IgG <sub>1κ</sub>
<b>SPECIFICITY</b>	Human Interleukin-3 (IL-3) <sup>1-4</sup> (This is a neutralizing antibody)

### RESEARCH APPLICATIONS

**ELISA Capture:** Purified BVD8-3G11 monoclonal antibody is the preferred capture antibody in a sandwich ELISA for quantifying human IL-3 protein levels.<sup>1-3</sup> The purified BVD8-3G11 antibody should be paired with biotinylated BVD3-1F9 antibody (Cat. No. 10116-08) as the detection antibody, with purified recombinant human IL-3 as the standard.

**Western Blotting:** The purified BVD8-3G11 antibody is also useful for Western blotting applications. A concentration of 1-5 µg/mL (in conjunction with AP-labeled Goat Anti-Rat-Ig, Cat. No. 3010-04) has been found to enable detection of ≤ 100 ng/lane of recombinant human IL-3 under reducing conditions.

**Neutralization:** The LE/AF form of BVD8-3G11 can be used for neutralizing human IL-3 bioactivity. A suitable LE/AF Rat IgG<sub>1</sub> (Cat. No. 0116-14) should be used as an isotype control.

*Since applications vary, each investigator should determine the optimal concentration appropriate for individual applications.*

### CHARACTERIZATION

To ensure acceptable performance, each batch of product is tested in a sandwich ELISA to conform to characteristics of a standard reference reagent.

***For Research Use Only. Not for Diagnostic or Therapeutic Use.***

## HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20°C immediately upon receipt. Each reagent is stable for the period shown on the bottle label if stored as directed.

## WARNING

Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

## REFERENCES

1. Abrams, J.S., M.-G. Roncarolo, H. Yssel, U. Andersson, G.J. Gleich, and J.E., Silver. 1992. *Immunol. Rev.* 127:5.
2. Abrams, J., J. Silver, R. van Dyke, and G. Gleich. 1994. Eosinophil-active cytokines in human disease: Development and use of monoclonal antibodies to IL-3-, IL-5, GM-CSF. In *Eosinophils in Allergy and Inflammation* (A. Kay and G. Gleich, eds). Marcel Dekker, New York, pp. 133.
3. Abrams, J. 1995. Immunozytometric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In *Current Protocols in Immunology* (J. Coligam, A. Kruisbeek, D. Margulies, E. Shevach, W. Strober, eds.). John Wiley and Sons, New York. Unit 6.20.
4. Kaushansky, K. 1992. *J. Clin. Invest.* 90:1879.