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ProductInformation

ANTI-EOTAXIN , HUMAN
Affinity-Isolated Antibody

Product Number **E-160**
Storage Temperature -20°C

Product Description

Anti-Eotaxin, Human is developed by immunizing goats with purified *E. coli*-derived recombinant human eotaxin as the immunogen. Eotaxin specific IgG was purified by eotaxin affinity chromatography.

Anti-eotaxin will neutralize the biological activity of mouse eotaxin (Cat. No. E-161) at a 5-fold higher IgG concentration. Based on direct ELISA and immunoblotting results (non-reducing conditions), it shows less than 20% cross-reactivity with mouse eotaxin, less than 15% cross-reactivity with human MCP-2 (Cat. No. M-244) and human MCP-3 (Cat. No. M-245) and less than 5% cross-reactivity with human MCP-1 (Cat. No. M-243). This antibody shows no cross-reactivity with other cytokines tested using direct ELISA.

Originally purified from bronchoalveolar lavage fluid of guinea pigs sensitized by aerosol challenge with ovalbumin. cDNA clones for guinea pig, mouse and human eotaxin were isolated. Mouse eotaxin cDNA encodes a 97 amino acid residue precursor protein from which the amino-terminal 23 residues are cleaved to generate the 74 residue mature protein. Mouse eotaxin is approximately 60% identical to human eotaxin (Cat. No. E-158) and guinea pig eotaxin. Mouse eotaxin shows high amino acid sequence identity to members of the MCP family (Cat. Nos. M-243, M-244, M-245, M-246). mRNA is expressed in a variety of tissues. Expression is induced in cultured endothelial cells in response to IFN-g. mRNA is also induced in response to the transplantation of IL-4-secreting tumor cells.

Procedure

Neutralization Dose 50 (ND_{50}) is defined as the concentration of antibody required to yield one-half maximal inhibition of the cytokine activity on a responsive cell line, when that cytokine is present at a concentration just high enough to elicit a maximum response. The ND_{50} is approximately 1 - 3 µg/ml in the presence of 0.05 µg/ml of human eotaxin, using CCR3 transfected Y3 cells in a chemotaxis assay.

Reagents

Lyophilized from a sterile phosphate buffered saline (PBS) solution.

Preparation Instructions

Reconstitute contents of the vials using sterile PBS, 1 ml will yield an antibody concentration of 0.1 mg/ml.

Storage/Stability

Prior to reconstitution, store tightly sealed at -20°C. After reconstitution and for continuous use, store at 2 - 8°C for up to one month. For extended storage, solution may be frozen in working aliquots. Storage in “frost-free” freezers is not recommended. Repeated freezing and thawing is not recommended.

References

1. Rothenberg, M., et al., *Proc. Natl. Acad. Sci. USA* **92**, 8960-8964 (1995).
2. Garcia-Zepeda, E., et al., *Nat. Med.* **2**, 449-456 (1996).
3. Ponath, P., et al., *J. Clin. Invest.* **97**, 604-612 (1996).

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