**Anti-Mouse C10**
Developed in Goat
IgG Fraction of Antiserum

**Product No. C 9832**

Anti-Mouse C10 is developed in goat using recombinant mouse C10, expressed in *E. coli*, as immunogen. The product is purified by Protein G affinity chromatography. Goat Anti-Mouse C10 is provided lyophilized from phosphate buffered saline, to which no preservatives are added.

**Description**
C10 is a member of the C-C, or β chemokine class. Other chemokines in this group include Eotaxin, HCC-1, I-309, JE, MCP-1, 2, 3, MIP-1α, MIP-1β and RANTES. These chemokines act primarily as chemoattractants and activate monocytes, dendritic cells, T lymphocytes, natural killer cells, B lymphocytes, basophils and eosinophils. C10 was originally identified as a transcript that is induced in bone marrow cells upon stimulation of GM-CSF. The precursor form of C10 consists of 116 amino acids. To generate the mature C10 (95 amino acids), the precursor cleaves its hydrophobic signal peptide.

**Performance**
Monoclonal Anti-Mouse C10 is tested for its ability to neutralize the chemotactic activity of rmC10 for human monocytes.[1] The $ND_{50}$ of the antibody is defined as the concentration of antibody resulting in a one-half maximal inhibition of bioactivity of rmC10 that is present at a concentration just high enough to elicit a maximum response. In this bioassay, 0.5 µg/ml rmC10 was mixed with various dilutions of the antibody for 1 hour minutes at 37°C. After preincubation, 35 µl of the antigen-antibody mixture were transferred to the lower compartment of a 96-well chemotaxis chamber. The chemotaxis chamber was reassembled, two day cultered human monocytes were added to the top chamber and incubated at 37°C for approximately 75 minutes in a humidified $CO_2$ incubator. The chemotaxis filter was then fixed and stained. The optical density of the filter is proportional to the number of cells that migrated across the filter.
The antibody may also be used in immunoblotting and ELISA. By ELISA, the antibody shows no cross-reactivity other cytokines tested.*

**Product Information**

| | |
|---|---|
| Mass/vial: | 1 mg |
| Immunogen: | Recombinant, Mouse C10 |
| Host Animal: | Goat |
| Formulation: | Lyophilized from PBS without additives. |
| Endotoxin: | <10 ng/vial by LAL method |
| Bioactivity: | $ND_{50}$ = 20 -200 µg/ml |
| Direct ELISA: | |
| | 0.5 - 1 µg/ml antibody detects <0.15 ng/well of recombinant, mouse C10. |
| Indirect Immunoblotting: | |
| | 1 - 2 µg/ml antibody detects 2 ng/lane of recombinant, mouse C10 under reducing and non-reducing conditions. |
| Sterility: | 0.2 µm-filtered, aseptic fill |

**Reconstitution and Use**
To one vial of lyophilized powder, add 1 ml of 0.2 µm-filtered PBS to produce a 1 mg/ml stock solution of Anti-Mouse C10. If aseptic technique is used, no further filtration should be needed for use in cell culture environments.

**Storage**
Prior to reconstitution, store at –20°C. Reconstituted product may be stored at 2-8°C for up to one month. For prolonged storage, freeze in working aliquots at –20°C. Avoid repeated

freezing and thawing.

**References**

1. 1. Matsushima, K., et al., J. Exp. Med., 169, 1485 (1989).

* rhANG, rhAR, rhBTC, rhβ-NGF, rhBDNF, rhCNTF, rrCNTF, rhEGF, rhENA-78, rhEPO, rhFGFa, rhFGFb, rhFGF-3, rhFGF-4, rhFGF-5, rhFGF-6, rhFGF-7, rhG-CSF, rmG-CSF, rhGDNF, rhGM-CSF, rhGM-CSF Rα, rmGM-CSF, rhGROα, rhGROβ, rhGROγ, rhHB-EGF, rhHeregulin α, rhHGF, rhI-309, rhIFN-γ, rhIGF-I, rhIGF-I R, rhIGF-II, rhIL-1α, rhIL-1 RI, rhIL-1 RII,rhIl-1α, rhIL-1 RI, rhIL-1 RII, rmIl-1α, rhIL-1β, rmIL-1β, rhIL-1 ra, rhIL-2, rhIL-2 sRα, rhIL-2 sRβ, rmIL-2, rhIL-3, rhIL-3 sRα, rmIL-3, rhIL-4, rhIL-4 sR, rmIL-4, rhIL-5, rhIL-5 sRα, rhIL-5 sRβ, rmIL-5, rhIL-6, rhIL-6 sR, rmIL-6, rhIL-7, rhIL-7 R, rmIL-7, rhIL-8, rhIL-9, rmIL-9, rhIL-10, rmIL-10, rhIL-11, rhIL-12, rhIL-13, rmIL-13, rhIL-15, rhIP-10, rmJE, rhLIF, rhLIF R, rmLIF, rhM-CSF, rmM-CSF, rhMCP-1, rhMCP-1 R, rhMCP-3, rhMidkine, rhMIP-1α, rmMIP-1α, rhMIP-1β, rmMIP-1β, rhNT-4, rhOSM, rhPD-ECGF, hPDGF, pPDGF, rhPDGF-AA, rhPDGF-AB, rhPDGF-BB, rhPDGF Rα, rhPlGF, rhPTN, rhRANTES, rhSCF, rmSCF, rhsgp130, rhSLPI, hTfR, rhTGF-α, rhTGF-β1, rhTGF-β2, rhTGF-β3, raTGF-β5, rhLAP (TGF-β1), rhLatent TGF-β1, rhTGF-β sRII, rhTGF-β sRIII, rhTNF-α, rmTNF-α, rhTNF-β, rhsTNF RI, rhsTNF RII, rhVEGF.