

PRODUCT INFORMATION SUMMARY

ANTI - GM - CSF

Purified Antibody (Clone F43) Cat. Number M620020 0.2 mg

SPECIFICITY:

Recombinant and native human granulocyte-macrophage colony stimulating factor, a glycoprotein which stimulates the proliferation and differentiation of hematopoietic progenitor cells and the growth of granulocyte-macrophage colony-forming cells. The cDNA which encodes human GM-CSF was recently cloned and the nucleotide and amino acid sequence of the cytokine determined. The GM-CSF molecule is a 14 to 15 kilodalton polypeptide which contains two internal disulfide bonds which are important in the maintenance of its structure. Two asparagine residues serve as potential glycosylation sites and thereby contribute to the molecule's size heterogeneity.

IMMUNOGLOBULIN CHAIN COMPOSITION:

IgG1, kappa chains (Clones F43)

SOURCE:

Murine ascites fluid.

CLONE:

Derived from hybridization of murine myeloma (NS-1) cells with spleen cells from BALB/c mice immunized with yeast-derived recombinant human granulocyte-monocyte colony stimulating factor.

PURIFICATION METHOD:

Protein A affinity chromatography.

CHARACTERIZATION:

Enzyme immunoassay working dilutions (1mg/ml):
Clone F43 -- 1: 5,000

Western blot working dilutions (1 mg/ml):
Clone F43 -- 1: 80,000

RESEARCH APPLICATIONS:

Biochemical identification by Western blot analysis of GM-CSF in body fluids and tissue culture medium.

Immunological detection of GM-CSF by quantitative immunoassays.

Immunoaffinity purification of GM-CSF.

CROSS-REACTIVITY:

Cross-reactivity with other cytokines (including TNF alpha and beta, IL 1, IL 2, and IFNs alpha, beta and gamma) was not observed in quality control testing.

NEUTRALIZING ACTIVITY:

Neutralizing activities of clone F43 are minimal.

HANDLING AND STORAGE:

Lyophilized, purified monoclonal antibody upon reconstitution with 0.2 ml of distilled water will be in a medium containing 0.01M phosphate-buffered saline, pH 7.4. These preparations should be diluted in a protein-containing or other stabilizing medium to a concentration suitable for use in specific protocols. Lyophilized reagents should be stored at -20° C until reconstitution. All reagents in a liquid state should be stored at 2-8° C when not in use. Purified anti-GM-CSF is provided free of stabilizing agents and preservatives to facilitate conjugation and immediate use in functional and immunological assays.

WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

SELECTED REFERENCES:

Metcalf, D. 1986. The molecular biology and functions of the granulocyte-macrophage colony stimulating factors. Blood 67:257.

ANTIGENIX AMERICA Inc.
1-800-558-1008 (from outside NY State)

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