



## ANTI-GM-CSF RECEPTOR, CLN 2B7-17-A MONOCLONAL ANTIBODY CERTIFICATE OF ANALYSIS

<b>CATALOG NUMBER:</b>	MAB1037-250UG	<b>QUANTITY:</b>	250 µg
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	1 mg/mL
<b>ALTERNATE NAMES:</b>	CD116; Colony stimulation factor 2 receptor alpha.	<b>EPITOPE:</b>	Extracellular, ligand binding site
<b>CLONE NAME:</b>	2B7-17-A	<b>HOST/ISOTYPE:</b>	Ms IgG2a
<b>BACKGROUND:</b>	Granulocyte-macrophage colony-stimulating factor (GM-CSF) is a growth and differentiation factor for a variety of hematopoietic progenitor cells (including those for neutrophils, macrophages, eosinophils, megakaryocytes, and erythroid cells) and can also functionally activate mature neutrophils, eosinophils, and macrophage. It may also have actions on nonhematopoietic cells, including placental trophoblasts, dendritic antigen presenting cells, and certain tumor cells. All of the biologic actions of GM-CSF are thought to be mediated through the interaction of GM-CSF with specific cellular receptors {Blood 82(6):1724-1731, 1993}.		
<b>SPECIFICITY:</b>	MAB1037 neutralizes the human native granulocyte-macrophage colony stimulating factor (GM-CSF) receptor and recombinant GM-CSF receptor. Binds to the alpha chain of human GM-CSF receptor inhibiting both high-affinity (alpha-beta chain heterodimer) and low-affinity (alpha chain only) binding and subsequent action of GM-CSF (Nicola, 1993). This antibody has a relatively high-affinity for the GM-CSF receptor alpha chain (KD-3nM)		
<b>IMMUNOGEN:</b>	Full length hGM-CSFR alpha chain protein expressed in transfected murine FDC-P1 cells {Nicola, NA 1993}.		
<b>APPLICATIONS:</b>	Inhibition: 10 ng/mL to 1 µg/mL (6 nM) produces half maximal inhibitory dose in a wide range of GM-CSF assays. {Thymidine incorporation of AML193 cells upon stimulation with GM-CSF for instance). Immunoblotting: 1-10 µg/mL membrane preparations with proteinase inhibitors are suggested for best results. Immunoprecipitation: prepared membrane preparations in 0.5%-1% triton X-100/PBS with proteinase inhibitors; 5-10 µg of antibody per 300-500 µL of membrane lysates 200-300 mg/mL total protein. Immunohistochemistry: fresh, unfixed cells were used; 0.5-1 µg/mL of antibody, then post-fixed with 1% PFA FACS: 10 µg of antibody /million cells		
<b>SPECIES REACTIVITY:</b>	Human, other species not tested.		
<b>PRESENTATION:</b>	Liquid in a PBS solution with an endotoxin level of less than 0.1 ng/µg of immunoglobulin as measured by the LAL assay method.		

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**STORAGE/HANDLING:** Store at 2-8°C protected from light and temperature fluctuations up to the expiration date printed on the product label.

**REFERENCES:** Nicola NA, Wycherley K, Boyd A, Layton JE, Cary D, Metcalf D. (1993) Neutralizing and Non-Neutralizing Monoclonal Antibodies to Human GM-CSF Receptor Alpha-chain. *Blood* **82**:1724-31 {original paper}.

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**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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