



1F-800-C100

Monoclonal Antibody to Lysozyme Fluorescein (FITC) conjugated (0.1 mg)

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| Clone: | LZ598-10G9 |
| Isotype: | Mouse IgG1 |
| Specificity: | The mouse monoclonal antibody LZ598-10G9 recognizes lysozyme, an approximately 17 kDa antibacterial enzyme, which is being used as a marker for the lineage diagnosis of acute leukemias. |
| Regulatory Status: | RUO |
| Immunogen: | human lysozyme |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC. |
| Concentration: | 1 mg/ml |
| Storage Buffer: | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| Storage / Stability: | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| Usage: | The reagent is designed for Flow Cytometry analysis. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | Lysozyme is anti-bacterial enzyme found mainly in milk, saliva, tears, plasma, spleen, mucus, and leukocytes (e.g. in cytoplasmic granules of neutrophils). It damages bacterial cell walls by hydrolysis of 1,4-beta-linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine residues in a peptidoglycan and between N-acetyl-D-glucosamine residues in chitodextrins. Lysozyme is part of the innate immune system. It protects wet body surfaces, such as conjunctiva. Reduced lysozyme levels have been associated with bronchopulmonary dysplasia in newborns. On the other hand high lysozyme blood levels produced for example by myelomonocytic leukemia cells can lead to kidney failure and low blood potassium. |
| References: | *Strobl H, Knapp W: Myeloid cell-associated lysosomal proteins as flow cytometry markers for leukocyte lineage classification. J Biol Regul Homeost Agents. 2004 Jul-Dec;18(3-4):335-9. |

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