TECHNICAL DATA SHEET

CyFlow™ Lysozyme FITC
Anti-Hu; Clone LZ598-10G9

REF **AC017849**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	Lysozyme
Alternative Names	—
Clone	LZ598-10G9
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human lysozyme

Specificity

The mouse monoclonal antibody LZ598-10G9 recognizes lysozyme, a 17 kDa antibacterial enzyme, which is being used as a marker for the lineage diagnosis of acute leukemias.

Contact Information:

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Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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-β-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. < PMID: 15786701 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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