

TECHNICAL DATA SHEET

CyFlow™ IgG1 PE-DyLight™ 594 Mouse Isotype Control

REF AU555075

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	IgG1 Isotype Control
Alternative Names	—
Clone	MOPC-21
Clonality	monoclonal
Format	PE-DyLight™ 594
Host / Isotype	Mouse / IgG1
Species Reactivity	n/a
Negative Species Reactivity	Human Rat
Quantity [Concentration]	0.1 mg [0.1 mg/ml]
Immunogen	< no data >

Specificity

This mouse IgG1 κ monoclonal antibody (clone MOPC-21) has unknown specificity and was chosen as an isotype control after screening on variety of resting, activated, live and fixed rat and human tissues.

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Application

The reagent is designed as an isotype control for Flow Cytometry analysis. To establish the amount of non-specific antibody binding, match the concentration of the correct isotype to the recommended working concentration of the antigen-specific antibody. If the background signal of the isotype control is too high (usually when working antibody concentrations are above 10 µg/ml of incubation mixture), change the experimental conditions to reduce the background.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing 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

The specificity of staining by monoclonal antibodies to target antigens should be verified by establishing the amount of non-specific antibody binding. Especially at higher concentration (more than 15 µg/ml) the antibody staining usually has consignable background. To this end a non-reactive immunoglobulin of the same isotype is included as a negative control for each specific monoclonal antibody used in a particular immunoassay. The monoclonal antibody MOPC-21, generated against an undefined antigen, does not react specifically with rat and human samples, and hence all the background that could be observed when working with this antibody would be a result of general nonspecific interactions between an mouse IgG1 molecule and the respective sample under the particular conditions. This shall help the customer to set up the experimental conditions so that the nonspecific binding of any antibody is abolished.

References

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

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