TECHNICAL DATA SHEET

CyFlow™ LARGE1 PE
Anti-Hu; Clone LARGE-02

REF **CF600136**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	LARGE1
Alternative Names	—
Clone	LARGE-02
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG2b
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.1 mg/ml]
Immunogen	Recombinant fragment of human LARGE1 (amino acids 35-142)

Specificity

The mouse monoclonal antibody LARGE-02 recognizes human LARGE1 antigen, a glycosyltransferase localizing mainly to the Golgi apparatus. Crossreactivity with LARGE2 was not determined.

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 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

LARGE1 serves as a glycosyltransferase which participates in glycosylation of the muscle membrane protein α-dystroglycan. Mutations of LARGE1 lead to hypoglycosylation of α-dystroglycan and cause congenital muscular dystrophy (MDC1D) associated with severe mental retardation. Altered α-dystroglycan glycosylation may also play a role in cancer, as hypoglycosylation of the protein and loss of laminin binding have been demonstrated in invasive carcinoma cells.

References

- Grewal PK, McLaughlan JM, Moore CJ, Browning CA, Hewitt JE: Characterization of the LARGE family of putative glycosyltransferases associated with dystroglycanopathies. Glycobiology. 2005 Oct; 15(10):912-23. < PMID: 15958417 >

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

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