

TECHNICAL DATA SHEET

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

REF AF160681

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	LARGE1
Alternative Names	—
Clone	LARGE-02
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2b
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [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:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 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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