

cFluor® BYG710 Anti-Human CD56 (LT56)

PRODUCT DETAILS	
Catalog Number:	R7-20321 (100 tests) R7-20322 (25 tests)
Reactivity:	Human
Clone:	LT56
Format:	cFluor® BYG710 ¹
Isotype:	Mouse IgG2a
Test Dilution:	5 µL / test
Application:	Flow cytometry
Formulation:	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (BSA Country of Origin USA)
Storage:	2-8°C and protected from light. Do not freeze

PRODUCT DESCRIPTION

The LT56 monoclonal antibody binds to human CD56, a 120 to 180-kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. Depending on the cytoplasmic domain, CD56 exists in three main isoforms: NCAM-120, NCAM-140, and NCAM-180¹. CD56, also known as NCAM (Neural Cell Adhesion Molecule), Leu-19 and NKH1, is present on NK and NKT cells. CD56 is also expressed in the brain (cerebellum and cortex) and at neuromuscular junctions. Aberrant CD56 expression is observed in a range of hematological malignancies such as multiple myeloma and leukemia² as well as in solid tumors such as lung cancer, ovarian cancer, and neuroblastoma³. The antibody was conjugated to a fluorophore and purified by chromatography.

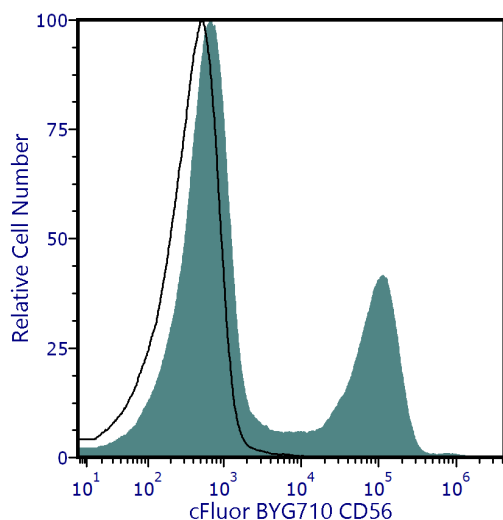
RECOMMENDED USAGE

Each lot of this antibody is quality control tested using flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per 1 million cells in a staining volume of 100 µL. If whole blood is analyzed, then use 5 µL per 100 µL. It is recommended that users titrate the antibody to obtain the optimal result for their specific application.

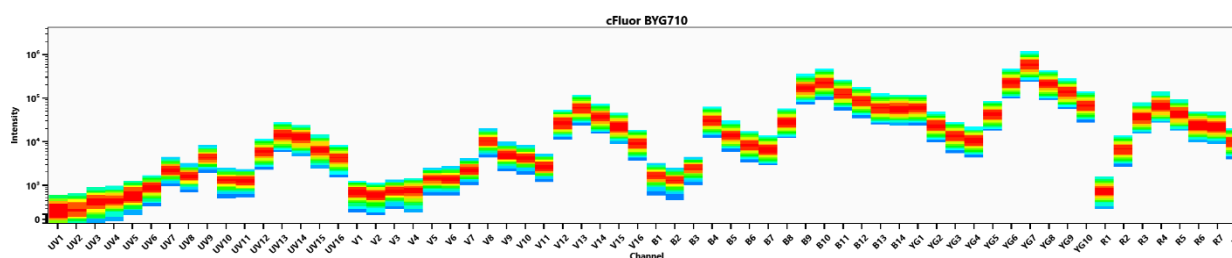
Please briefly centrifuge the reagent vial before use.

Use appropriate personal protective equipment per the product safety data sheet when using this product.

PRODUCT DATA



Human peripheral blood was stained with cFluor® BYG710 CD56 (clone LT56) (filled histogram) or mouse cFluor® BYG710 IgG2a, κ isotype control (open histogram). Data shown is gated on lymphocytes.



Spectral signature of cFluor® BYG710 from a Cytex® Aurora 5 laser system equipped with 355, 405, 488, 561 and 640 nm lasers using CytexAssaySetting.

REFERENCES

1. Van Acker HH, et al. 2017. Front Immunol. 8:892
2. Crossland DL, et al. 2018. Oncogene. 37(27):3686-3697
3. Seidenfaden R, et al. 2006. Neurochem Int. 49(1):1-11

For Research Use Only. Not intended for use in diagnostic procedures.

¹cFluor® BYG710 is a tandem dye made with R-PE. Caution – Tandem dyes may show changes in their emission spectra with prolonged exposure to light or fixatives.