

TECHNICAL DATA SHEET

CyFlow™ CD95 FITC Anti-Hu; Clone LT95

REF BD855752

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD95
Alternative Names	Fas, APO-1, TNFRSF6
Clone	LT95
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	HUT-78 human T cell lymphoma cell line

Specificity

The mouse monoclonal antibody LT95 recognizes CD95 antigen, a 46 kDa single chain type I glycoprotein of the tumour necrosis factor/nerve growth factor (TNF/NGF) receptor superfamily, expressed on a variety of normal and neoplastic cells. It seems that the antibody LT95 does not induce

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

Fas mediated apoptosis, although it cross-blocks anti-Fas DX2 antibody that recognizes a functional epitope of Fas molecule.

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

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

CD95 (Fas, APO-1), a 46 kDa transmembrane glycoprotein, is a cell death receptor of the TNFR superfamily. Stimulation of CD95 results in aggregation of its intracellular death domains, formation of the death-inducing signaling complex (DISC) and activation of caspases. In type I cells caspase 3 is activated by high amounts of caspase 8 generated at the DISC, in type II cells low concentration of caspase 8 activates pathway leading to the release of cytochrome c from mitochondria and activation of caspase 3 by cytochrome c. Besides its roles in induction of apoptosis, Fas also triggers pro-inflammatory cytokine responses.

References

- Scaffidi C, Fulda S, Srinivasan A, Friesen C, Li F, Tomaselli KJ, Debatin KM, Krammer PH, Peter ME: Two CD95 (APO-1/Fas) signaling pathways. EMBO J. 1998 Mar 16; 17(6):1675-87. < PMID: 9501089 >
- Park DR, Thomsen AR, Frevert CW, Pham U, Skerrett SJ, Kiener PA, Liles WC: Fas (CD95 induces proinflammatory cytokine responses by human monocytes and monocyte-derived macrophages. J Immunol. 2003 Jun 15; 170(12):6209-16. < PMID: 12794152 >

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

- Drosopoulos KG, Roberts ML, Cermak L, Sasazuki T, Shirasawa S, Andera L, Pintzas A: Transformation by oncogenic RAS sensitizes human colon cells to TRAIL-induced apoptosis by up-regulating death receptor 4 and death receptor 5 through a MEK-dependent pathway. J Biol Chem. 2005 Jun17; 280(24):22856-67. < PMID: 15757891 >
- Guo Z, Zhang M, Tang H, Cao X: Fas signal links innate and adaptive immunity by promoting dendritic-cell secretion of CC and CXC chemokines. Blood. 2005 Sep 15; 106(6):2033-41. < PMID: 15941911 >
- Brumatti G, Yon M, Castro FA, Bueno-da-Silva AE, Jacysyn JF, Brunner T, Amarante-Mendes GP: Conversion of CD95 (Fas) Type II into Type I signaling by sub-lethal doses of cycloheximide. Exp Cell Res. 2008 Feb 1; 314(3):554-63. < PMID: 18078929 >

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

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