

1P-362-T025

Monoclonal Antibody to CD95 / Fas Phycoerythrin (PE) conjugated (25 tests)

Clone:	LT95
Isotype:	Mouse IgG1
Specificity:	<p>The antibody LT95 reacts with CD95 (Fas/APO-1), 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.</p> <p>It seems that the antibody LT95 does not induce Fas mediated apoptosis, although it cross-blocks anti-Fas DX2 antibody that recognizes a functional epitope of Fas molecule.</p>
Regulatory Status:	RUO
Immunogen:	HUT-78 human T cell lymphoma cell line
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	<p>The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.</p> <p>The content of a vial (0.5 ml) is sufficient for 25 tests.</p>
Expiration:	See vial label
Lot Number:	See vial label
Background:	<p>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.</p>

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Antibodies

- 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.
 - *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.
 - *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.
 - *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.
 - *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 Jun 17;280(24):22856-67. Epub 2005 Mar 8.

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