



Antibodies

1P-754-T025

Monoclonal Antibody to CD178 / Fas-L Phycoerythrin (PE) conjugated (25 tests)

Clone:	NOK-1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody NOK-1 recognizes CD178 / Fas-L, an approximately 40 kDa transmembrane glycoprotein expressed on neutrophils, monocytes, and activated T and NK cells. HCDM Workshop: VII 70322
Regulatory Status:	RUO
Immunogen:	L5178Y mouse T lymphoma cells expressing recombinant human CD178
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:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD178 / Fas-L (Fas ligand, CD95L), a member of TNF family transmembrane glycoproteins, is responsible for induction of apoptosis in cells containing its receptor CD95 / Fas. The CD178-mediated apoptosis pathway has been implicated in peripheral tolerance, tissue pathology, and maintenance of the immune privileged sites. Defects in this interaction may be related to some cases of systemic lupus erythematosus (SLE). CD178 was also described as a co-stimulatory receptor for T-cell activation in mice in vivo.

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References:

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- *Ghadimi MP, Sanzenbacher R, Thiede B, Wenzel J, Jing Q, Plomann M, Borkhardt A, Kabelitz D, Janssen O: Identification of interaction partners of the cytosolic polyproline region of CD95 ligand (CD178). *FEBS Lett.* 2002 May 22;519(1-3):50-8.
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- *Ji J, Chen JJ, Braciale VL, Cloyd MW: Apoptosis induced in HIV-1-exposed, resting CD4+ T cells subsequent to signaling through homing receptors is Fas/Fas ligand-mediated. *J Leukoc Biol.* 2007 Jan;81(1):297-305.

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