

A6-399-T025

Monoclonal Antibody to CD16 Alexa Fluor® 647 conjugated (25 tests)

Clone:	LNK16
Isotype:	Mouse IgG1
Specificity:	<p>The antibody LNK16 reacts with CD16, a low affinity receptor for aggregated IgG (Fcγ₃ antigen). CD16 exists in two different isoforms: CD16a (Fcγ_{3A}; 50-65 kDa; expressed on NK-cells, monocytes and macrophages) and CD16b (Fcγ_{3B}; 48 kDa; mainly expressed on neutrophils).</p> <p>HLDA V; WS Code M MA069 HLDA V; WS Code NK NK50</p>
Immunogen:	Normal human peripheral blood granulocytes
Species Reactivity:	Human, Non-Human Primates
Preparation:	The purified antibody is conjugated with Alexa Fluor 647 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 phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.
Storage / Stability:	<p>Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.</p> <p>Do not use after expiration date stamped on vial label.</p> <p>Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.</p>
Usage:	<p>The reagent is designed for Flow Cytometry analysis of human blood cells using 4 μl reagent / 100 μl of whole blood or 10⁶ cells in a suspension.</p> <p>The content of a vial (0.1 ml) is sufficient for 25 tests.</p>
Expiration:	See vial label
Lot Number:	See vial label
Background:	<p>CD16 (Fcγ₃) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human Fcγ₃ is expressed in two forms Fcγ_{3A} and -B. Fcγ_{3A} is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with Fcε₁-γ subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell Fcγ_{3A} is associated, moreover, with Fcε₁-β subunit. Besides IgG, Fcγ_{3A} can be triggered also by oligomeric IgE. Fcγ_{3B} is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype.</p>

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**Antibodies****References:**

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- *Boyle JJ: Human macrophages kill human mesangial cells by Fas-L-induced apoptosis when triggered by antibody via CD16. *Clin Exp Immunol.* 2004 Sep;137(3):529-37.
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