EXBIO Antibodies

PRODUCT DATA SHEET

A4-310-T025

Monoclonal Antibody to CD72 Alexa Fluor® 488 conjugated (25 tests)

Clone: 3F3

Isotype: Mouse IgG2b

Specificity: The antibody 3F3 reacts with CD72, a 39-43 kDa type II membrane glycoprotein (C-type lectin family). CD72 is a pan-B cell marker expressed throughout the B lymphocytes diferentiation with the exception of plasma cells; it is also present on follicular dendritic cells.
HLDA V; WS Code B CD72.5
HLDA VI; WS Code B CD72.1
HLDA VI; WS Code 6 BP 84

Immunogen: Normal human lymphocytes from a lymph node.

Species Reactivity: Human

Preparation: The purified antibody is conjugated with Alexa Fluor 488 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: Store in the dark at 2-8^{o}C. Do not freeze. Avoid prolonged exposure to light.
Do not use after expiration date stamped on vial label.
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.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension.
The content of a vial (0.1 ml) is sufficient for 25 tests.

Expiration: See vial label

Lot Number: See vial label

Background: **CD72** is a transmembrane glycoprotein expressed as a homodimer especially in B cells, but also in other antigen presenting cells such as dendritic cells and macrophages. Through one of its immunoreceptor tyrosine-based inhibitory motives (ITIMs), CD72 interacts with tyrosine phosphatase SHP-1, thereby suppressing B cell responsiveness. Binding of CD72 with its ligand CD100 (Sema4D) prevents BCR association and phosphorylation of CD72 and results in dissociation of SHP-1 from CD72, thus enables B cell activation.

For laboratory research only, not for drug, diagnostic or other use.

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References:

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