

Datasheet for ABIN192237
anti-CD72 antibody (PE)[Go to Product page](#)**1** Image**1** Publication

Overview

Quantity:	100 tests
Target:	CD72
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD72 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Normal human lymphocytes from a lymph node.
Clone:	3F3
Isotype:	IgG2b
Specificity:	The mouse monoclonal antibody 3F3 recognizes an extracellular epitope of 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 differentiation with the exception of plasma cells, it is also present on follicular dendritic cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD72
Alternative Name:	CD72 (CD72 Products)
Background:	<p>CD72 Molecule,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.</p> <p>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.,LYB2</p>
Gene ID:	971
UniProt:	P21854
Pathways:	BCR Signaling

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	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.
Restrictions:	For Research Use only

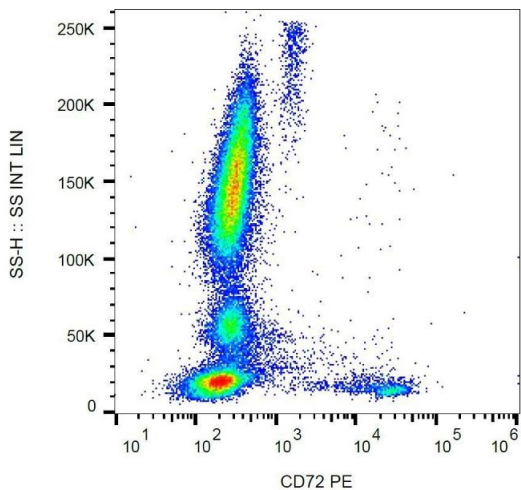
Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in: Mizrahi, Markel, Porgador, Bushkin, Mandelboim: "CD100 on NK cells enhance IFNgamma secretion and killing of target cells expressing CD72." in: **PLoS ONE**, Vol. 2, Issue 9, pp. e818, (2007) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Surface staining of CD72 on human peripheral blood cells with anti-CD72 (3F3) PE.