



11-310-C025

## Monoclonal Antibody to CD72 Purified Antibody (0.025 mg)

<b>Clone:</b>	3F3
<b>Isotype:</b>	Mouse IgG2b
<b>Specificity:</b>	<p>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 differentiation with the exception of plasma cells; it is also present on follicular dendritic cells.</p> <p>HLDA V; WS Code B CD72.5 HLDA VI; WS Code B CD72.1 HLDA VI; WS Code 6 BP 84</p>
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Normal human lymphocytes from a lymph node.
<b>Species Reactivity:</b>	Human
<b>Application:</b>	<p>Flow Cytometry Recommended dilution: 1 µg/ml Immunoprecipitation</p>
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by precipitation and chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	<p>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.</p>

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**Antibodies****References:**

- \*Kumanogoh A, Watanabe C, Lee I, Wang X, Shi W, Araki H, Hirata H, Iwahori K, Uchida J, Yasui T, Matsumoto M, Yoshida K, Yakura H, Pan C, Parnes JR, Kikutani H: Identification of CD72 as a lymphocyte receptor for the class IV semaphorin CD100: a novel mechanism for regulating B cell signaling. *Immunity*. 2000 Nov;13(5):621-31.
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- \*Kanderova V, Kuzilkova D, Stuchly J, Vaskova M, Brdicka T, Fiser K, Hrusak O, Lund-Johansen F, Kalina T: High-resolution Antibody Array Analysis of Childhood Acute Leukemia Cells. *Mol Cell Proteomics*. 2016 Apr;15(4):1246-61.

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