

Product datasheet for **SM1159PS**

CD72 Mouse Monoclonal Antibody [Clone ID: 3F3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3F3
Applications:	FC, IP
Recommended Dilution:	Immunoprecipitation. Flow cytometry: 1 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Normal human lymphocytes from a lymph node
Specificity:	The antibody reacts with CD72, a 39-43 kDa type II membrane glycoprotein (C-type lectin family).
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Purified by protein-A affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD72 molecule
Database Link:	Entrez Gene 971 Human P21854



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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.

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.

Synonyms:

Lyb-2, Ly-32, Ly32, B-Cell marker