

CD72 Monoclonal Antibody (10.1.D2), PE

Catalog Number MMCD72104

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Mouse
Host/Isotope	Mouse / IgG2b, kappa	Published species	Mouse
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	0.2 µg/1x10^6 cells
Clone	10.1.D2	Published Applications	
Immunogen	Mouse CD72.1 (Lyb-2.1). from DBA /2 mouse spleen cells	Flow Cytometry (Flow)	See 1 publications below
Conjugate	PE	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	purified		
Storage buffer	PBS		
Contains	<0.1% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Background/Target Information

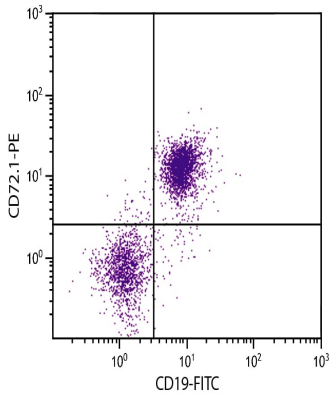
CD72 is a transmembrane glycoprotein expressed as a homodimer especially in B cells, but also in other antigen presenting cells such as dendritic cells and macrophages. Through one of its immunoreceptor tyrosine-based inhibitory motives (ITIMs), CD72 interacts with tyrosine phosphatase SHP-1, thereby 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.

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CD72 Antibody (MMCD72104) in Flow
Flow cytometry analysis of CD72 in DBA/2 mouse splenocytes. Cells were stained using CD72 Monoclonal Antibody (10-1.D.2), PE (Product # MMCD72104) and Rat Anti-Mouse CD19-FITC.

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PubMed References For CD72 Monoclonal Antibody (10.1.D2), PE

1 Flow Cytometry References

Species / Dilution	Summary
	MMCD72104 was used in Flow cytometry/Cell sorting to investigate if Trk-fused gene (TFG) is upregulated during lipopolysaccharide- and CpG-induced differentiation of B1 and B2 B cells into plasmablasts, with the highest expression of TFG in mature plasma cells.
Mouse / Not Cited	Autophagy (2021; 17: 2238) "TFG is required for autophagy flux and to prevent endoplasmic reticulum stress in CH12 B lymphoma cells." Author(s):Steinmetz TD,Schlötzer-Schrehardt U,Hearne A,Schuh W,Wittner J,Schulz SR,Winkler TH,Jäck HM,Mielenz D PubMed Article URL: http://dx.doi.org/10.1080/15548627.2020.1821546

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