

Purified anti-human CD72

Catalog # / Size: 316202 / 100 µg

Clone: 3F3

Isotype: Mouse IgG2b, κ

Workshop Number: VI CD72.1

Immunogen: human lymphocytes

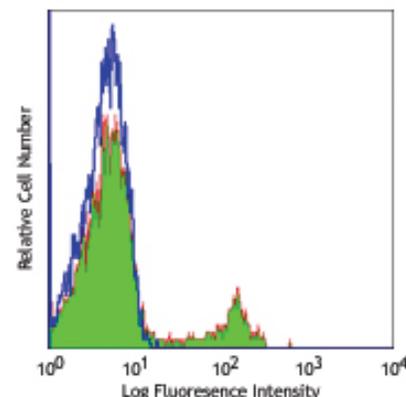
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified 3F3, followed by anti-mouse IgGs FITC

Applications:

Applications: FC - *Quality tested*
IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 1.0 µg per million cells or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation.

Application References: 1. Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.

Description: CD72 is a 39-43 kD type II membrane glycoprotein. It is a disulfide-linked homodimer belonging to C-type lectin family. CD72 is a pan-B cell marker expressed on pre-pre-B cells throughout B cell differentiation with the exception of plasma cells. It is also expressed on follicular dendritic cells, splenic red pulp macrophages (but not on peripheral blood monocytes), and liver Kupffer cells. CD72, a negative coreceptor of B cells, contains immunoreceptor tyrosine-based inhibitory motifs in the cytoplasmic domain which has been shown to recruit the tyrosine phosphatase SHP-1. Ligation of CD72 with its ligand regulates CD72 tyrosine dephosphorylation and SHP-1 dissociation to promote B cell activation and proliferation. CD100 and CD5 have been shown to be CD72 ligands. The CD100-CD72 interaction plays a role in maintenance of B cell homeostasis.

Antigen References: 1. Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.
2. Schwarting T, *et al.* 1992. *Am. J. Hematol.* 41:151.
3. Wu HJ and S. Bondada. 2002. *Immunol. Res.* 25:155.
4. Kumanogoh A, *et al.* 2000. *Immunity* 13:621.
5. Parnes JR and C. Pan. 2000. *Immunol. Rev.* 176:75.
6. Kumanogoh A, *et al.* 2005. *Intnl. Immunol.* 17:1277.

Related Products:

Product
Purified Mouse IgG2b, κ Isotype Ctrl
Cell Staining Buffer

Clone
MPC-11

Application
FC, ICFC, ICC, IF, IHC, IP, WB
FC, ICC, ICFC



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