

CD2 Monoclonal Antibody (RM2-5), eBioscience™

Product Details

Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, lambda
Class	Monoclonal
Type	Antibody
Clone	RM2-5
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467042

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Flow Cytometry (Flow)	0.25 µg/test	8 Publications
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

Description: The RM2-5 monoclonal antibody reacts with the mouse CD2 molecule, an approximately 50-55 kDa cell surface receptor expressed by all mouse lymphocytes. Expression of the CD2 antigen in the mouse differs from that of the human in that B lineage cells in the mouse from the pre-B cell stage to mature B cells express CD2. CD2 is a ligand for CD48 in the mouse and is involved in adhesion and activation of T cells.

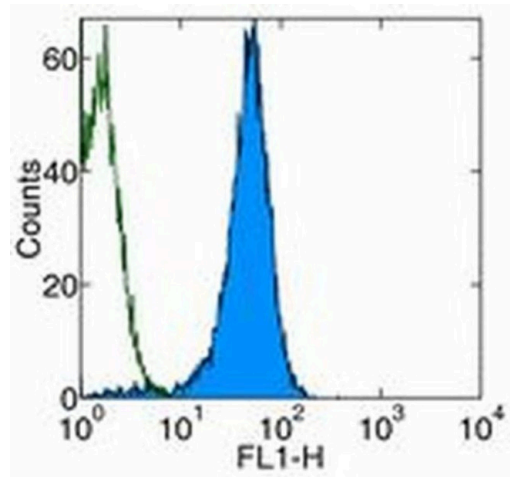
Applications Reported: The RM2-5 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. RM2-5 has also been reported in blocking of CD2 activity in in vitro functional assays. (Please use Functional Grade purified RM2-5, cat. 16-0021, in functional assays.).

Applications Tested: The RM2-5 antibody has been tested by flow cytometric analysis of mouse splenocytes and bone marrow cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.



CD2 Antibody (14-0021-85) in Flow
Staining of mouse splenocytes with Anti-Mouse CD2 FITC. Autofluorescence is indicated by open histogram. Total viable cells were used for analysis.

9 References

Flow Cytometry (8)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p>Multiple Levels of Control Determine How E4bp4/Nfil3 Regulates NK Cell Development.</p> <p>"14-0021 was used in Flow cytometry/Cell sorting to reveal mechanisms in NK cell development and that E4bp4 is a central hub to process extrinsic stimuli."</p> <p>Authors: Koszrzewski T,Borg AJ,Meng Y,Filipovic I,Male V,Wack A,DiMaggio PA,Brady HJM</p>	<p>Year</p> <p>2018</p> <p>Species</p> <p>Mouse</p>
<p>PloS one</p> <p>Overexpression of RhoH Permits to Bypass the Pre-TCR Checkpoint.</p> <p>"14-0021 was used in Flow cytometry/Cell sorting to indicate that an excess amount of RhoH is able to initiate pre-TCR signalling in the absence of pre-TCR complexes."</p> <p>Authors: Tamehiro N,Oda H,Shirai M,Suzuki H</p>	<p>Year</p> <p>2016</p> <p>Species</p> <p>Mouse</p>

[View more Flow references on thermofisher.com](#)

Neutralization (1)

<p>Gene therapy</p> <p>Ligation of the CD2 co-stimulatory receptor enhances IL-2 production from first-generation chimeric antigen receptor T cells.</p> <p>"14-0021 was used in Blocking experiments to demonstrate that signalling through endogenous CD2 following ligation drives IL-2 production by first-generation CD19-specific chimeric antigen receptor T-cells."</p> <p>Authors: Cheadle EJ,Rothwell DG,Bridgeman JS,Sheard VE,Hawkins RE,Gilham DE</p>	<p>Year</p> <p>2012</p> <p>Species</p> <p>Human Mouse</p>
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More applications with references on thermofisher.com

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