

CD4 Monoclonal Antibody (RM4-5), eFluor 570, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor 570, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RM4-5
Conjugate	eFluor® 570
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573595

Applications	Tested	Dilution	Published
Immunofluorescence (IF)	✓	Assay-Dependent	2 Publications
Immunocytochemistry (ICC)	✓	Assay-Dependent	
Immunohistochemistry (Frozen) (IHC (F))	✓	5 µg/mL	

Product Specific Information

Description: The RM4-5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both in T cell development and in optimal functioning of mature T cells. In T cells, CD4 associates with protein tyrosine kinase p56lck through its cytoplasmic tail. Binding of RM4-5 is blocked by GK1.5.

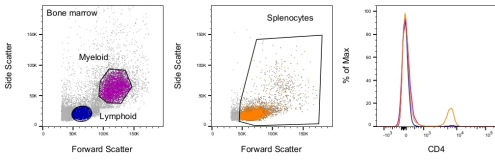
Applications Reported: This RM4-5 antibody has been reported for use in immunohistochemical staining of frozen tissue sections, microscopy, and immunocytochemistry.

Applications Tested: This RM4-5 antibody has been tested by immunohistochemistry of frozen mouse tissue and can be used at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filter Recommendation: When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is acceptable.

Excitation: 555 nm; Emission: 570 nm

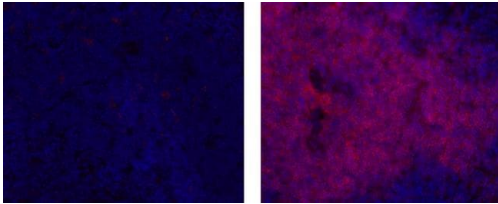
Advanced Verification Data



CD4 Antibody (41-0042-82)

Staining of mouse splenocytes and bone marrow cells. Right: As expected based on known relative expression patterns, CD4 clone RM4-5 stains a subset of splenocytes and does not stain any bone marrow cells. Details: Balb/c bone marrow cells (left) and splenocytes (middle) were surface stained with CD4 (clone RM4-5) followed by staining with 7-AAD. Viable bone marrow cells in the lymphoid (blue histogram) and myeloid (purple histogram) gates and viable splenocytes (orange histogram) were used for analysis. Relative expression validation info.

Product Images For CD4 Monoclonal Antibody (RM4-5), eFluor 570, eBioscience™



CD4 Antibody (41-0042-82) in IHC (F)

Immunohistochemistry of frozen mouse spleen stained with 5 µg/mL of Rat IgG2a K Isotype Control eFluor® 570 (left) or 5 µg/mL of Anti-Mouse CD4 eFluor® 570 (right). Nuclei are stained with DAPI.

[View more figures on thermofisher.com](#)

2 References

Immunofluorescence (2)

Nature communications

dNP2 is a blood-brain barrier-permeable peptide enabling ctCTLA-4 protein delivery to ameliorate experimental autoimmune encephalomyelitis.

"Published figure using CD4 monoclonal antibody (Product # 41-0042-82) in Immunofluorescence"

Authors: Lim S, Kim WJ, Kim YH, Lee S, Koo JH, Lee JA, Yoon H, Kim DH, Park HJ, Kim HM, Lee HG, Yun Kim J, Lee JU, Hun Shin J, Kyun Kim L, Doh J, Kim H, Lee SK, Bothwell ALM, Suh M, Choi JM

Species

Not Applicable

Dilution

Not Cited

Year

2015

PloS one

Characterization of two distinct lymphoproliferative diseases caused by ectopic expression of the Notch ligand DLL4 on T cells.

"Published figure using CD4 monoclonal antibody (Product # 41-0042-82) in Immunofluorescence"

Authors: Xiong H, Maraver A, Latkowski JA, Henderson T, Schlessinger K, Ding Y, Shen J, Tadokoro CE, Lafaille JJ

Species

Not Applicable

Dilution

Not Cited

Year

2015

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