



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

100 μg
Mouse
Mouse
Rat / IgG2a, kappa
Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 570, eBioscience™
Monoclonal
Antibody
RM4-5
eFluor™ 570
556/569 nm
Liquid
0.2 mg/mL
Affinity chromatography
PBS, pH 7.2
0.09% sodium azide
4° C, store in dark, DO NOT FREEZE!
AB_2573595

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	12 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	5 μg/mL	1 Publication
Immunocytochemistry (ICC/IF)	Assay-Dependent	4 Publications

#### **Product Specific Information**

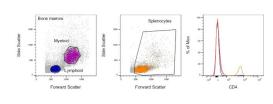
Description: The RM4-5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both 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  $\mu$ g/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

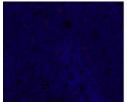
Filter Recommendation: When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is

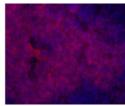
# Product Images For CD4 Monoclonal Antibody (RM4-5), eFluor™ 570, eBioscience™



### 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. {RE}





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

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

View more figures on thermofisher.com

#### **□** 18 References

#### Immunohistochemistry (12)

#### Cells

Complete Freund's Adjuvant Induces a Fibroblast-like Synoviocytes (FLS) Metabolic and Migratory Phenotype in Resident Fibroblasts of the Inoculated Footpad at the Earliest Stage of Adjuvant-Induced Arthritis.

**Year** 2023

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

Authors: González-Chávez SA, Chaparro-Barrera E, Alvarado-Jáquez MF, Cuevas-Martínez R, Ochoa-Albíztegui RE, Pacheco-Tena C

#### Frontiers in immunology

Black raspberry extract inhibits regulatory T-cell activity in a murine model of head and neck squamous cell carcinoma chemoprevention.

"Published figure using CD4 monoclonal antibody (Product # 41-0042-82) in Immunohistochemistry" Authors: Ryan NM,Lamenza FF,Upadhaya P,Pracha H,Springer A,Swingler M,Siddiqui A,Oghumu S

**Year** 2022

View more IHC references on thermofisher.com

#### Immunohistochemistry (PFA fixed) (1)

#### **Immunity**

T Cell Recruitment to the Intestinal Stem Cell Compartment Drives Immune-Mediated Intestinal Damage after Allogeneic Transplantation.

"Published figure using CD4 monoclonal antibody (Product # 41-0042-82) in Immunocytochemistry" Authors: Fu YY,Egorova A,Sobieski C,Kuttiyara J,Calafiore M,Takashima S,Clevers H,Hanash AM

**Year** 2019

## Immunohistochemistry (Frozen) (1)

#### **Biology**

Increased Levels of IL-16 in the Central Nervous System during Neuroinflammation Are Associated with Infiltrating Immune Cells and Resident Glial Cells.

"Published figure using CD4 monoclonal antibody (Product # 41-0042-82) in Immunohistochemistry (Frozen)" Authors: Hridi SU,Barbour M,Wilson C,Franssen AJ,Harte T,Bushell TJ,Jiang HR

**Year** 2021

# More applications with references on thermofisher.com

### ICC/IF (4)