

CD4 Rabbit mAb

Catalog No: #48889



Package Size: #48889-1 50ul #48889-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

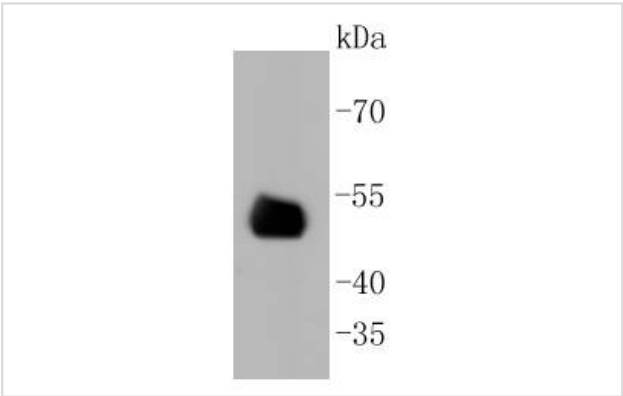
Description

Product Name	CD4 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST0488
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	CD 4 antibody CD4 (L3T4) antibody CD4 antibody CD4 antigen (p55) antibody CD4 antigen antibody CD4 molecule antibody CD4 receptor antibody CD4+ Lymphocyte deficiency, included antibody CD4_HUMAN antibody CD4mut antibody L3T4 antibody Leu3 antibody Ly-4 antibody Lymphocyte antigen CD4 antibody MGC165891 antibody OTTHUMP00000238897 antibody p55 antibody T cell antigen T4 antibody T cell antigen T4/LEU3 antibody T cell differentiation antigen L3T4 antibody T cell OKT4 deficiency, included antibody T cell surface antigen T4/Leu 3 antibody T cell surface antigen T4/Leu3 antibody T cell surface glycoprotein CD4 antibody T-cell surface antigen T4/Leu-3 antibody T-cell surface glycoprotein CD4 antibody W3/25 antibody W3/25 antigen antibody
Accession No.	Swiss-Prot#:P01730
Calculated MW	51 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

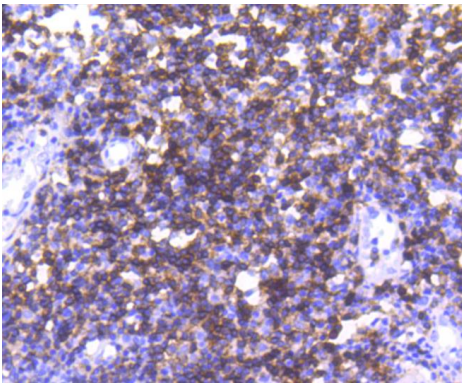
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200ICC: 1:50-1:200

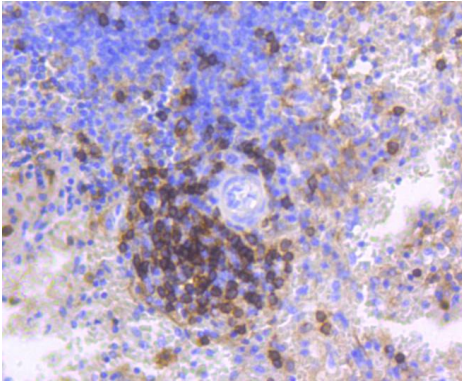
Images



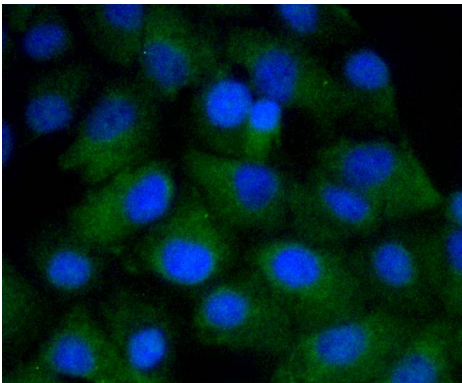
Western blot analysis of CD4 on human thymus tissue lysates using anti-CD4 antibody at 1/1,000 dilution.



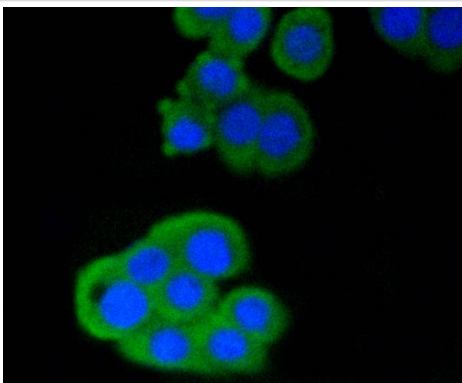
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD4 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-CD4 antibody. Counter stained with hematoxylin.



ICC staining CD4 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining CD4 in CRC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

The T cell receptor (TCR) is a heterodimer composed of either α and β or γ and δ chains. CD3 chains and the CD4 or CD8 co-receptors are also required for efficient signal transduction through the TCR. The TCR is expressed on T helper and T cytotoxic cells that can be distinguished by their expression of CD4 and CD8; T helper cells express CD4 proteins and T cytotoxic cells display CD8. CD4 is also expressed on cortical cells, mature medullary thymocytes, microglial cells and dendritic cells. CD4 (also designated T4 and Leu 3), is a membrane glycoprotein that contains four extracellular immunoglobulin-like domains. The TCR in association with CD4 can bind class II MHC molecules presented by the antigen-presenting cells. The CD4 protein functions by increasing the avidity of the interaction between the TCR and an antigen-class II MHC complex. An additional role of CD4 is to function as a receptor for HIV.

References

1. Kim EJ et al. Costimulation blockade alters germinal center responses and prevents antibody-mediated rejection. *Am J Transplant* 14:59-69 (2014).
2. Liu XD et al. Resistance to Antiangiogenic Therapy Is Associated with an Immunosuppressive Tumor Microenvironment in Metastatic Renal Cell Carcinoma. *Cancer Immunol Res* 3:1017-29 (2015).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.