

Anti-Monkey CD4 PolymAb®

Catalog NO.: A28749PM

Basic Information

Observed MW

Calculated MW

51 kDa/24 kDa

Category

Monoclonal Antibodies

Applications

IHC-P, mIHC

Cross-Reactivity

Cynomolgus monkey

Conjugation

Unconjugated

Background

Predicted to enable several functions, including interleukin-16 binding activity; interleukin-16 receptor activity; and protein homodimerization activity. Involved in helper T cell enhancement of adaptive immune response. Acts upstream of or within several processes, including defense response to Gram-negative bacterium; positive regulation of calcium-mediated signaling; and positive regulation of peptidyl-tyrosine phosphorylation. Located in endoplasmic reticulum; external side of plasma membrane; and membrane raft. Is expressed in several structures, including alimentary system; brain; genitourinary system; hemolymphoid system; and liver and biliary system. Used to study type 1 diabetes mellitus. Human ortholog(s) of this gene implicated in immunodeficiency 79. Orthologous to human CD4 (CD4 molecule).

Recommended Dilutions

IHC-P	1:200 - 1:800
mIHC	1:200 - 1:800

Immunogen Information

Gene ID	Swiss Prot
101864991	G7PJN3

Immunogen

Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms

L3T4; Ly-4

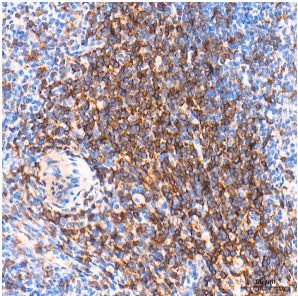
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Product Information

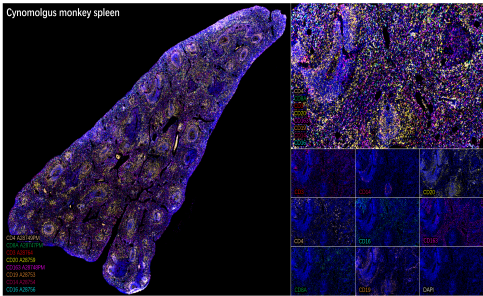
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Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C. Avoid freeze / thaw cycles.		
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.		

Validation Data



Immunohistochemistry analysis of paraffin-embedded Cynomolgus monkey spleen tissue using Anti-Monkey CD4 PolymAb® (A28749PM) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



The multiplex IHC analysis on paraffin-embedded Cynomolgus monkey spleen tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Anti-Monkey CD4 PolymAb® (A28749PM, 1:400) with TSA-CFP440 (Light Brown), and Anti-Monkey CD8A Rabbit PolymAb® (A28747PM, 1:1000) with TSA-CFP490 (Green), and Anti-Monkey CD3 mAb (A28764, 1:1000) with TSA-CFP555 (Red), and Anti-Monkey CD20 mAb (A28759, 1:1000) with TSA-CFP645 (Yellow), and Anti-Monkey CD163 PolymAb® (A28748PM, 1:20000) with TSA-CFP440 (Magenta), and Anti-Monkey CD19 mAb (A28753, 1:400) with TSA-CFP490 (Orange), and Anti-Monkey CD14 mAb (A28754, 1:200) with TSA-CFP555 (Magenta), and Anti-Monkey CD16 mAb (A28756, 1:5000) with TSA-CFP649 (Cyan). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.

