

For Research Use Only

CD4 Recombinant monoclonal antibody

Catalog Number: 86300-3-RR



Basic Information

Catalog Number:	86300-3-RR	GenBank Accession Number:	NM_013488	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	12504	CloneNo.:	250263G12
Source:	Rabbit	UNIPROT ID:	P06332	Recommended Dilutions:	WB: 1:1000-1:6000 IHC: 1:500-1:2000 IF-P: 1:500-1:2000
Isotype:	IgG	Full Name:	CD4 antigen		
Immunogen Catalog Number:	EG3847	Calculated MW:	51 kDa		
		Observed MW:	55 kDa		

Applications

Tested Applications:	WB, IHC, IF-P, ELISA	Positive Controls:	
Species Specificity:	mouse	WB:	mouse thymus tissue, mouse spleen tissue
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC:	mouse spleen tissue, mouse thymus tissue
		IF-P:	mouse thymus tissue, mouse spleen tissue

Background Information

CD4 is a 55-kDa transmembrane glycoprotein expressed on T helper cells, the majority of thymocytes, monocytes, macrophages, and dendritic cells (PMID: 9304802; 12213222). CD4 is an accessory protein for MHC class-II antigen/T-cell receptor interaction. It plays an important role in T helper cell development and activation (PMID: 9539765; 3112582). CD4 serves as a receptor for the human immunodeficiency virus (HIV) (PMID: 9304802).

Storage

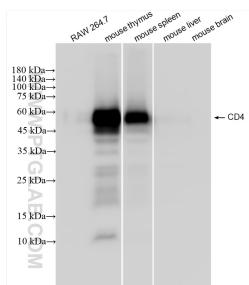
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

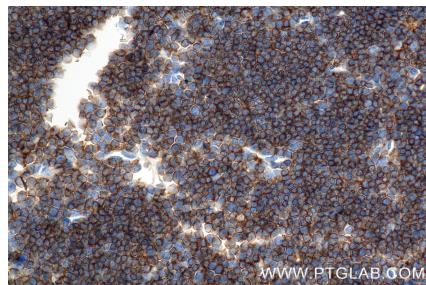
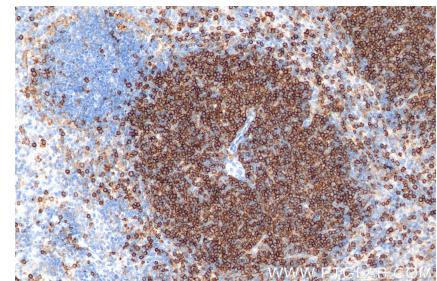
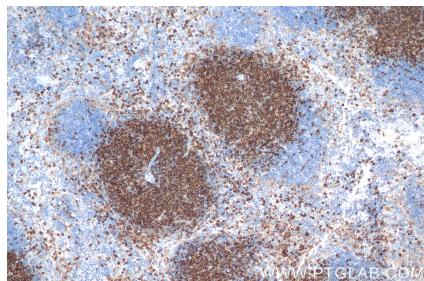
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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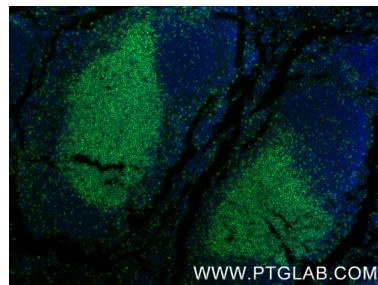
Selected Validation Data



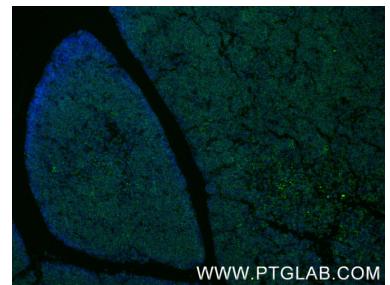
Various lysates were subjected to SDS PAGE followed by western blot with 86300-3-RR (CD4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



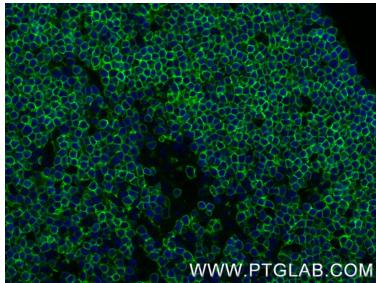
Immunohistochemical analysis of paraffin-embedded mouse thymus tissue slide using 86300-3-RR (CD4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD4 antibody (86300-3-RR, Clone: 250263G12) at dilution of 1:1000 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse thymus tissue using CD4 antibody (86300-3-RR, Clone: 250263G12) at dilution of 1:1000 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse thymus tissue using CD4 antibody (86300-3-RR, Clone: 250263G12) at dilution of 1:1000 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).