

For Research Use Only

CD3 epsilon Recombinant monoclonal antibody

Catalog Number: 86053-1-RR



Basic Information

Catalog Number:	86053-1-RR	GenBank Accession Number:	NP_001101610.2	Purification Method:
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	315609	Protein A purification
Source:	Rabbit	UNIPROT ID:	A6J423	CloneNo.:
Isotype:	IgG	Full Name:	CD3 molecule, epsilon polypeptide	242849D3
Immunogen Catalog Number:	EG1450	Calculated MW:	22kDa	Recommended Dilutions:
		Observed MW:	22 kDa	WB: 1:2000-1:10000 IHC: 1:500-1:2000 IF-P: 1:500-1:2000

Applications

Tested Applications:	Positive Controls:
WB, IF-P, ELISA	WB: rat thymus tissue, CTLL-2 cells, mouse thymus tissue, rat spleen tissue
Species Specificity:	IHC: rat spleen tissue, rat thymus tissue
mouse, rat	IF-P: rat thymus tissue, rat 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	

Background Information

CD3 is a multimeric protein associated with the T-cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction (PMID: 15885124). CD3 is composed of CD3 γ , δ , ϵ , and ζ chains (PMID: 1826255). It is expressed by thymocytes in a developmentally regulated manner, T cells, and some NK cells (PMID: 3289580). The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction (PMID: 11985657). This antibody was raised against the epsilon chain of rat CD3 molecule.

Storage

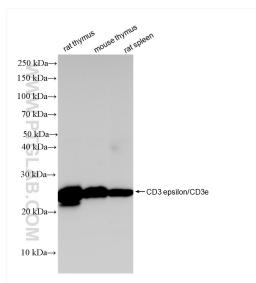
Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

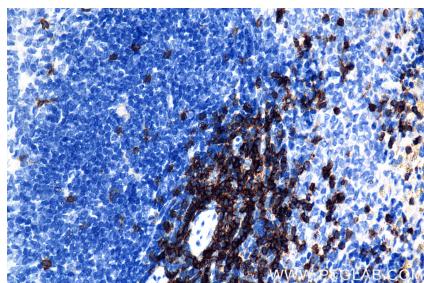
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

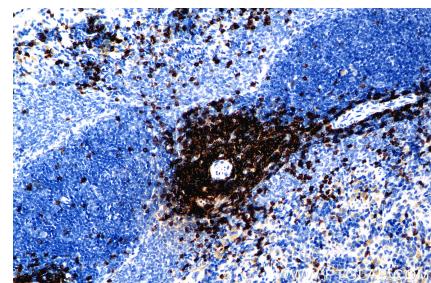
Selected Validation Data



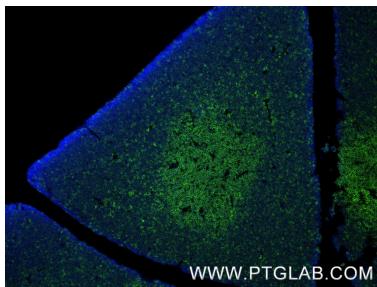
Various lysates were subjected to SDS PAGE followed by western blot with 86053-1-RR (CD3 epsilon/CD3e antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



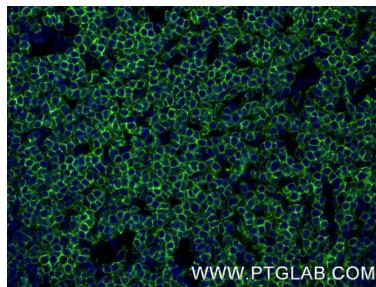
Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 86053-1-RR (CD3 epsilon antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



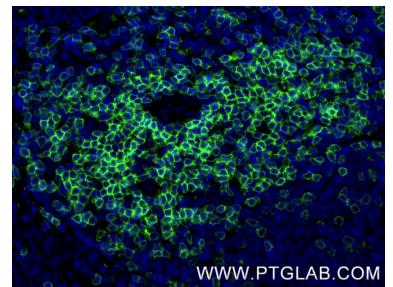
Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 86053-1-RR (CD3 epsilon antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat thymus tissue using CD3 epsilon antibody (86053-1-RR, Clone: 242849D3) 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 rat thymus tissue using CD3 epsilon antibody (86053-1-RR, Clone: 242849D3) 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 rat spleen tissue using CD3 epsilon antibody (86053-1-RR, Clone: 242849D3) 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).