

CD19 Recombinant antibody

Catalog Number: 83254-1-RR

Basic Information

Catalog Number: 83254-1-RR	GenBank Accession Number: NM_009844.2	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 12478	CloneNo.: 240135A3
Source: Rabbit	UNIPROT ID: P25918	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF-P 1:300-1:1200
Isotype: IgG	Full Name: CD19 antigen	
	Calculated MW: 60 kDa	
	Observed MW: 62-70 kDa	

Applications

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

Background Information

CD19 is a type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells (PMID: 8528044). CD19 is involved in B cell development, activation and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction (PMID: 23210908).

Storage

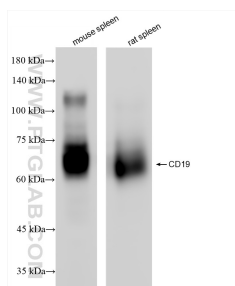
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

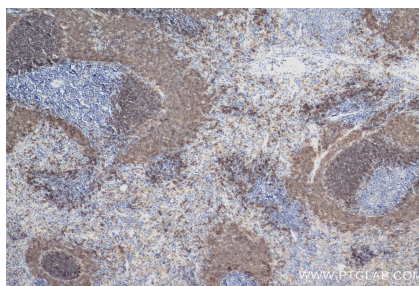
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

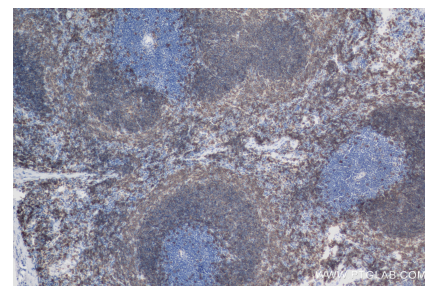
Selected Validation Data



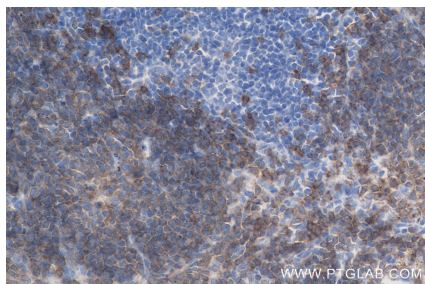
Various lysates were subjected to SDS PAGE followed by western blot with 83254-1-RR (CD19 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



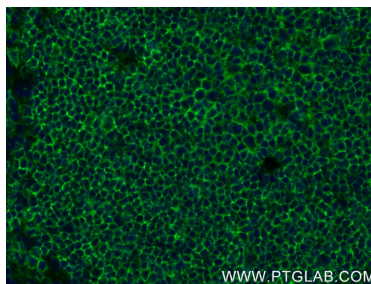
Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 83254-1-RR (CD19 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



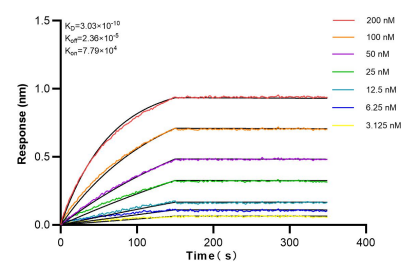
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83254-1-RR (CD19 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83254-1-RR (CD19 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 CD19 antibody (83254-1-RR, Clone: 240135A3) at dilution of 1:600 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 83254-1-RR against Mouse CD19 were performed. The affinity constant is 0.303 nM.