

For Research Use Only

Mouse CD19 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 83254-1-PBS



Basic Information

Catalog Number: 83254-1-PBS	GenBank Accession Number: NM_009844.2	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 12478	CloneNo.: 240135A3
Source: Rabbit	UNIPROT ID: P25918	
Isotype: IgG	Full Name: CD19 antigen	
	Calculated MW: 60 kDa	
	Observed MW: 62-70 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, Cytometric bead array, Indirect ELISA

Species Specificity:
mouse, rat

Product Information

83254-1-PBS targets CD19 as part of a matched antibody pair:

MP00253-1: 83254-2-PBS capture and 83254-1-PBS detection (validated in Cytometric bead array)

MP00253-3: 83254-1-PBS capture and 83254-4-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

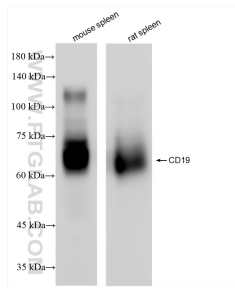
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

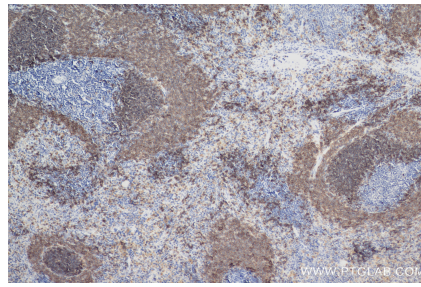
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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

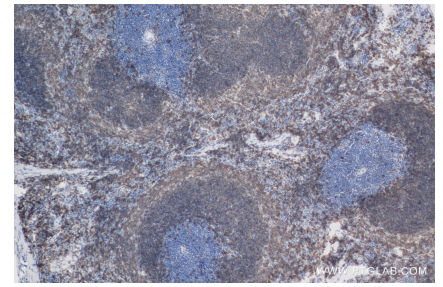
Selected Validation Data



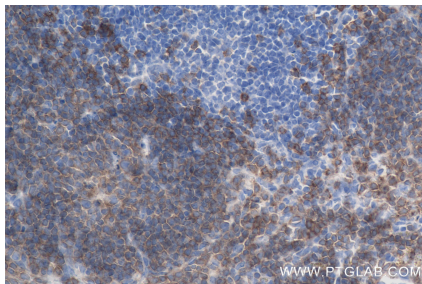
Various lysates were subjected to SDS PAGE followed by western blot with 83254-1-RR (CD19 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83254-1-PBS in a different storage buffer formulation.



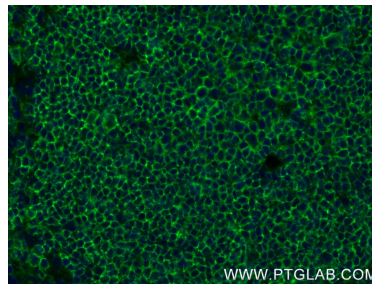
Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 83254-1-RR (CD19 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83254-1-PBS in a different storage buffer formulation.



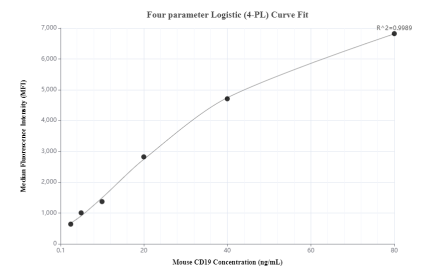
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83254-1-RR (CD19 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83254-1-PBS in a different storage buffer formulation.



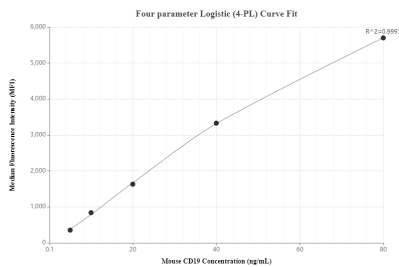
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83254-1-RR (CD19 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83254-1-PBS in a different storage buffer formulation.



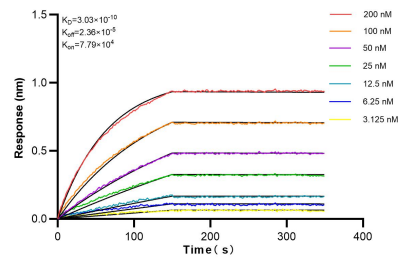
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD19 antibody (83254-1-RR, Clone: 240135A3) at dilution of 1:600 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83254-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00253-1, Mouse CD19 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83254-2-PBS. Detection antibody: 83254-1-PBS. Standard: Eg0907. Range: 2.5-80 ng/mL



Cytometric bead array standard curve of MP00253-3, Mouse CD19 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83254-1-PBS. Detection antibody: 83254-4-PBS. Standard: Eg0907. Range: 5-80 ng/mL



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