For Research Use Only

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

Catalog Number:83254-1-PBS

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
83254-1-PBS

Size:
1 mg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_009844.2

GeneID (NCBI):
12478

UNIPROT ID:
P25918

Full Name:
CD19 antigen

Calculated MW:
60 kDa

Observed MW:
62-70 kDa

Purification Method:
Protein A purification

CloneNo.:
240135A3

Applications

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

Species Specificity:
mouse, rat

Background Information

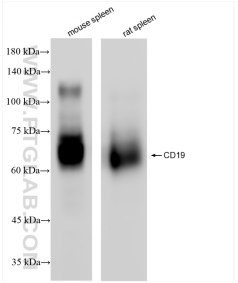
CD19 is a type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during 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

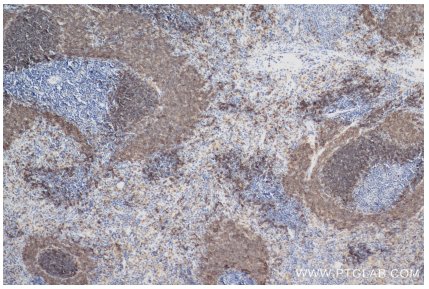
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

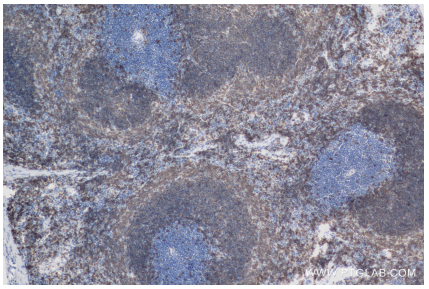
Selected Validation Data



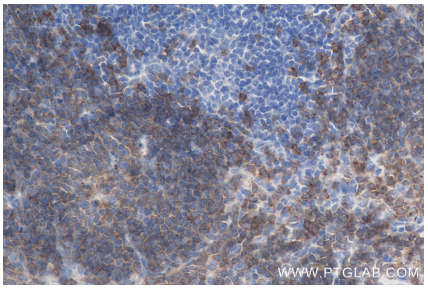
Various lysates were subjected to SDS PAGE followed by western blot with 83254-1-RR (CD19 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83254-1-PBS in a different storage buffer formulation.



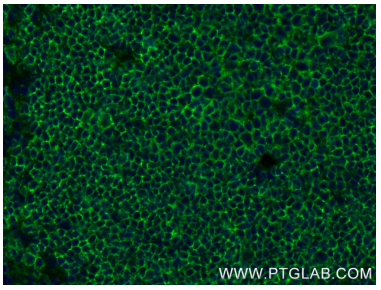
Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 83254-1-RR (CD19 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83254-1-PBS in a different storage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



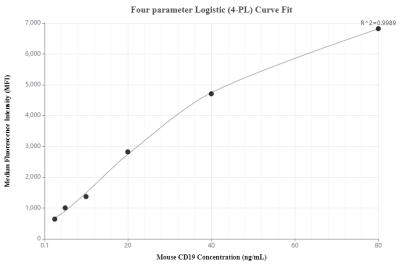
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83254-1-RR (CD19 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83254-1-PBS in a different storage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



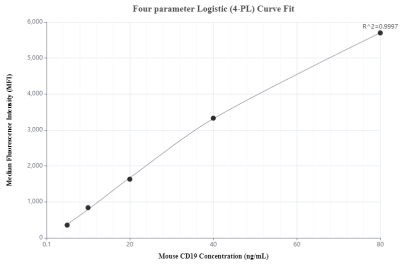
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83254-1-RR (CD19 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83254-1-PBS in a different storage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



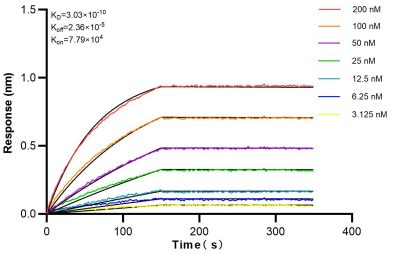
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD19 antibody (83254-1-RR, Clone: 240135A3) at dilution of 1:600 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed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