

For Research Use Only

Mouse CD21/CD35 Recombinant antibody, PBS Only (Capture)

Catalog Number: 84565-2-PBS



Basic Information

Catalog Number:

84565-2-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

AAA37448.1

GeneID (NCBI):

12902

UNIPROT ID:

P19070

Full Name:

complement receptor 2

Calculated MW:

113kDa

Observed MW:

160-210 kDa

Purification Method:

Protein A purification

CloneNo.:

241957E6

Applications

Tested Applications:

WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:

mouse, rat

Product Information

84565-2-PBS targets CD21/CD35 as part of a matched antibody pair:

MP01407-1: 84565-2-PBS capture and 84565-3-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

CD21, also known as complement receptor type 2 (CR2), complement C3d receptor, and Epstein-Barr virus receptor, is a transmembrane protein that contains a small cytoplasmic domain, a transmembrane region and an extracellular domain consisting of 15 short consensus repeats (SCRs) (PMID: 6230668; 2551147). CD21 binds complement fragments C3d, C3dg and iC3b and acts as a receptor for the Epstein-Barr virus (PMID: 7753047). CD35, also known as complement receptor type 1 (CR1) or C3b/C4b receptor, binds C3b and C4b. The murine Cr2 gene encodes for both CD21 and CD35 (PMID: 2139460; 19559484). Mouse CD35 comprises 21 SCRs while mouse CD21 is identical to mouse CD35 except that it lacks the first 6 SCRs. CD21/CD35 forms trimolecular complexes with CD19 and CD81 and plays roles in the regulation of humoral immune responses (PMID: 11043778).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

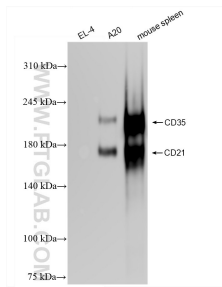
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

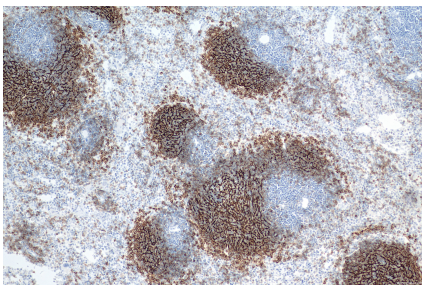
E: proteintech@ptglab.com
W: ptglab.com

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

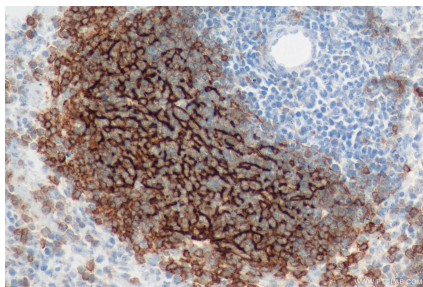
Selected Validation Data



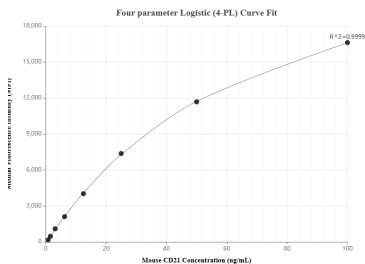
Various lysates were subjected to SDS PAGE followed by western blot with 84565-2-RR (CD21 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84565-2-PBS in a different storage buffer formulation.



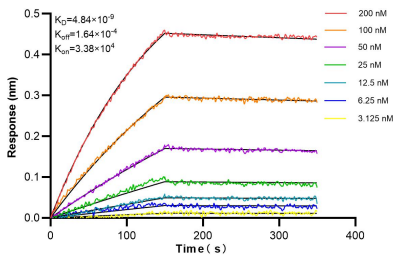
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 84565-2-RR (CD21 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84565-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 84565-2-RR (CD21 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 84565-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01407-1, MOUSE CD21 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84565-2-PBS. Detection antibody: 84565-3-PBS. Standard: Eg1396. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 84565-2-RR against Mouse CD21/CD35 were performed. The affinity constant is 4.84 nM.