

CD200 Recombinant antibody

Catalog Number: 83437-5-RR

Basic Information

Catalog Number:

83437-5-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:**GeneID (NCBI):**

17470

UNIPROT ID:

O54901

Full Name:

CD200 antigen

Calculated MW:

31 kDa

Observed MW:

40 kDa

Purification Method:

Protein A purification

CloneNo.:

240391A8

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

mouse

Positive Controls:

WB : mouse cerebellum tissue, mouse brain tissue

IHC : mouse brain tissue, mouse cerebellum 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

CD200, also known as OX2, is a type I transmembrane glycoprotein that belongs to the immunoglobulin superfamily (PMID: 3032785). It contains two extracellular immunoglobulin domains, a transmembrane and a cytoplasmic domain. CD200 is expressed on a variety of cell types, including thymocytes, B lymphocytes, a subset of T lymphocytes, follicular dendritic cells, neurons, and endothelial cells (PMID: 3032785; 10981966). CD200 binds to its receptor, CD200R, which is primarily expressed by myeloid and T cell lineage (PMID: 15187158). The CD200-CD200R interaction plays a role in immunosuppression and suppression of anti-tumor immune responses (PMID: 22020332).

Storage

Storage:

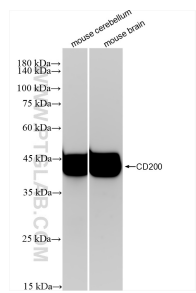
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

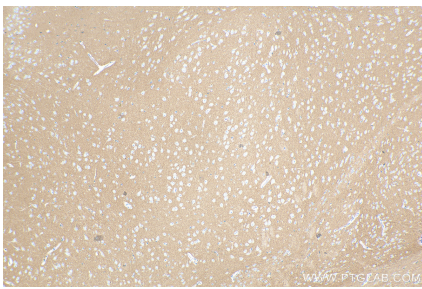
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

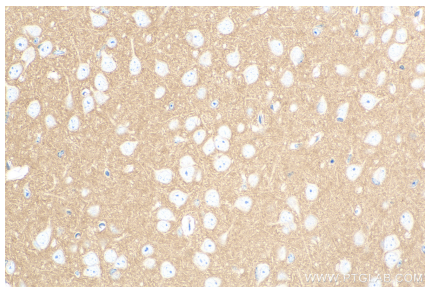
Selected Validation Data



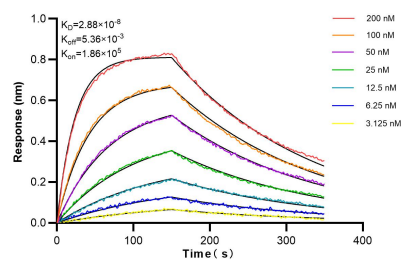
Various lysates were subjected to SDS PAGE followed by western blot with 83437-5-RR (CD200 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83437-5-RR (CD200 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 brain tissue slide using 83437-5-RR (CD200 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83437-5-RR against Mouse CD200 were performed. The affinity constant is 28.8 nM.