

For Research Use Only

# CD200 Monoclonal antibody

Catalog Number: 66282-1-Ig

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

66282-1-Ig

**Size:**

1500 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG5045

**GenBank Accession Number:**

BC022522

**GeneID (NCBI):**

4345

**UNIPROT ID:**

P41217

**Full Name:**

CD200 molecule

**Calculated MW:**

269 aa, 30 kDa

**Observed MW:**

40-50 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

5F3D6

**Recommended Dilutions:**

WB 1:1000-1:4000

IHC 1:50-1:500

## Applications

**Tested Applications:**

FC, IHC, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human

**Cited Species:**

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : fetal human brain tissue, human spleen tissue

IHC : human tonsillitis tissue,

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Tyler MacNeil	34771664	Cancers (Basel)	IF
Masayuki Ishibashi	28429795	Sci Rep	WB,IHC
Katsuhiro Yoshimura	32395395	Oncoimmunology	WB,IHC,IF

## 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

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

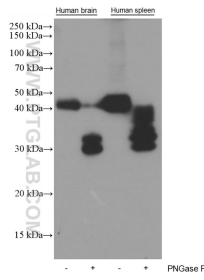
T: 4006900926

E: Proteintech-CN@ptglab.com

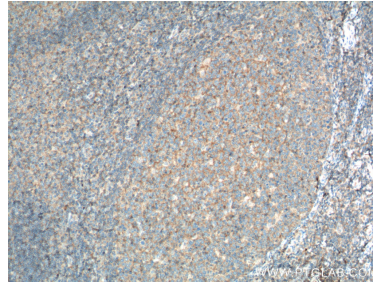
W: ptgcn.com

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

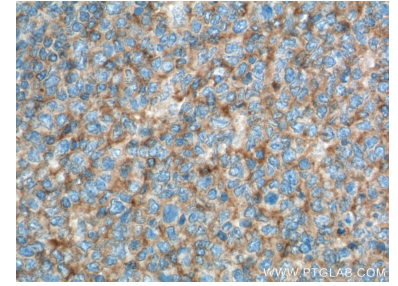
## Selected Validation Data



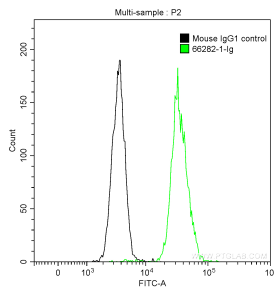
Untreated and PNGase F-treated lysates of fetal human brain tissue and human spleen tissue were subjected to SDS PAGE followed by western blot with 66282-1-Ig (CD200 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66282-1-Ig (CD200 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66282-1-Ig (CD200 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> U-937 cells were stained with 0.2 ug Anti-Human CD200 (66282-1-Ig, Clone: 5F3D6) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution of 1:1000 (green), or with 0.2 ug mouse IgG1 isotype control antibody and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution of 1:1000 (black). Cells were fixed with 90% MeOH.