

For Research Use Only

# CD200 Monoclonal antibody

Catalog Number: 66282-1-Ig

Featured Product

3 Publications



## Basic Information

<b>Catalog Number:</b> 66282-1-Ig	<b>GenBank Accession Number:</b> BC022522	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1500 µg/ml by Nanodrop and 633 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4345	<b>CloneNo.:</b> 5F3D6
<b>Source:</b> Mouse	<b>Full Name:</b> CD200 molecule	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 269 aa, 30 kDa	
<b>Immunogen Catalog Number:</b> AG5045	<b>Observed MW:</b> 40-50 kDa	

## Applications

**Tested Applications:**  
FC, IHC, WB, ELISA

**Cited Applications:**  
IF, IHC, WB

**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

\*\*\* 20ul sizes contain 0.1% BSA

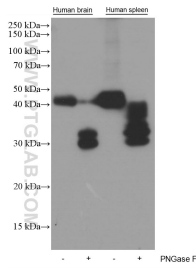
For technical support and original validation data for this product please contact:

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

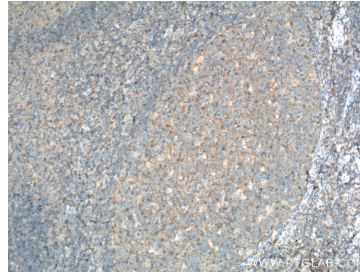
E: proteintech@ptglab.com  
W: ptglab.com

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

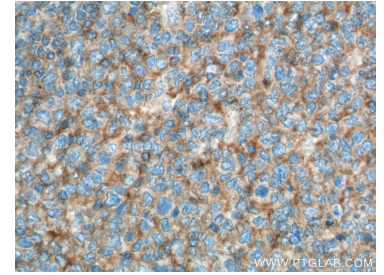
## Selected Validation Data



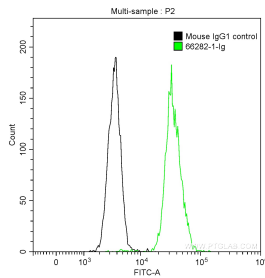
Untreated and PNGase F-treated lysates of fetal human brain tissue and human spleen tissue were subjected to SDS PAGE followed by western blot with 66282-1-Ig (CD200 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



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).



$1 \times 10^6$  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.