

Anti-Human CD200R1 Antibody [PSH05-02]

HA722211



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	IF-Cell, FC
Molecular Wt:	Predicted band size: 39 kDa
Clone number:	PSH05-02

Description: Cell surface transmembrane glycoprotein CD200 receptor 1 is a protein that in humans is encoded by the CD200R1 gene. CD200R1 is expressed on the surface of myeloid cells and CD4+ T cells. It interacts with CD200 transmembrane glycoprotein that can be expressed on variety of cells including neurons, epithelial cells, endothelial cells, fibroblasts, and lymphoid cells. CD200R1 activation regulates the expression of pro-inflammatory molecules such as tumor necrosis factor (TNF-alpha), interferons, and inducible nitric oxide synthase (iNOS). This gene encodes a receptor for the OX-2 membrane glycoprotein. Both the receptor and substrate are cell surface glycoproteins containing two immunoglobulin-like domains. This receptor is restricted to the surfaces of myeloid lineage cells and the receptor-substrate interaction may function as a myeloid downregulatory signal. Mouse studies of a related gene suggest that this interaction may control myeloid function in a tissue-specific manner. Alternative splicing of this gene results in multiple transcript variants.

Immunogen: Recombinant protein within human CD200R1 aa 29-265 / 348.

Positive control: Human peripheral blood.

Subcellular location: Cell membrane.

Database links: SwissProt: Q8TD46 Human

Recommended Dilutions:

IF-Cell	1:100
FC	1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

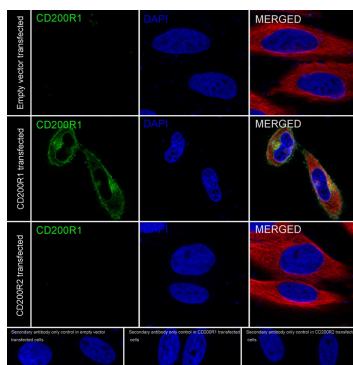
Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Immunocytochemistry analysis of HeLa cells labeling Human CD200R1 with Rabbit anti-Human CD200R1 antibody (HA722211) at 1/100 dilution.



HeLa cells, transfected with empty control, CD200R1 or CD200R2 expression vector, respectively, were fixed in 4% paraformaldehyde for 10 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Human CD200R1 antibody (HA722211) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

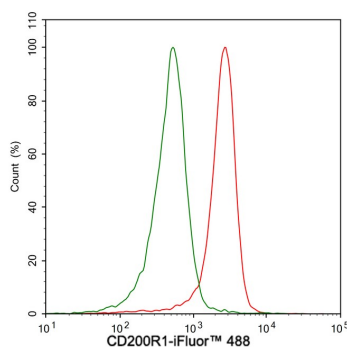


Fig2: Flow cytometric analysis of human peripheral blood labeling Human CD200R1.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA722211, 1µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 °C.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Pannunzio B et al. CD200R1 Contributes to Successful Functional Reinnervation after a Sciatic Nerve Injury. Cells. 2022 May
2. Linley H et al. Reduced cutaneous CD200:CD200R1 signaling in psoriasis enhances neutrophil recruitment to skin. Immun Inflamm Dis. 2022 Jul

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