

Anti-Mouse CD45R Antibody [PSH10-80]

HA601385



Product Type:	Recombinant Rat Monoclonal IgG1, primary antibodies
Species reactivity:	Mouse
Applications:	IHC-P, FC, IF-Tissue
Molecular Wt:	Predicted band size: 145 kDa
Clone number:	PSH10-80

Description: Protein tyrosine phosphatase, receptor type, C also known as PTPRC is an enzyme that, in humans, is encoded by the PTPRC gene. PTPRC is also known as CD45 antigen (CD stands for cluster of differentiation), which was originally called leukocyte common antigen (LCA). PTPRC is a critical enzyme involved in regulating immune cell function. PTPRC is a transmembrane protein tyrosine phosphatase expressed on the surface of all nucleated hematopoietic cells, particularly lymphocytes. It plays a key role in the activation and differentiation of T cells, B cells, and other immune cells by modulating signaling pathways. It functions by dephosphorylating specific tyrosine residues on target proteins, thereby controlling various signaling processes essential for immune response and homeostasis.

Positive control: Mouse spleen tissue, mouse spleen cells.

Subcellular location: Cell membrane, Membrane raft, Synapse.

Database links: SwissProt: P06800 Mouse

Recommended Dilutions:

IHC-P	1:1,000
FC	1:1,000
IF-Tissue	1:500

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

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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

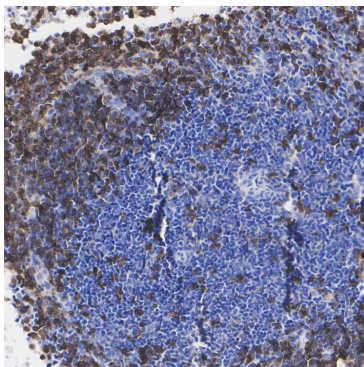


Fig1: Immunohistochemical analysis of paraffin-embedded mouse spleen tissue with Rat anti-Mouse CD45R antibody (HA601385) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA601385) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

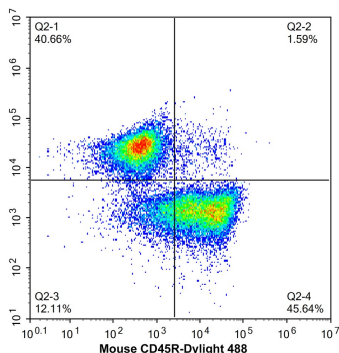


Fig2: Flow cytometric analysis of mouse spleen cells labeling Mouse CD45R (HA601385).

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA601385, 1/1,000). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a Dylight 488 conjugate-Goat anti-Rat IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C .

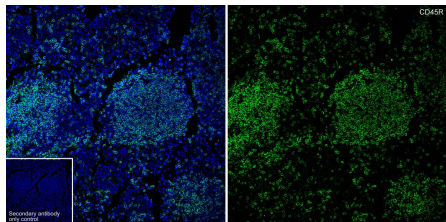


Fig3: Application: IF-Tissue

Species: Mouse

Site: spleen

Sample: Paraffin-embedded section

Antibody concentration: 1/500

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

Background References

1. Albekairi TH et al. Cadmium exposure exacerbates immunological abnormalities in a BTBR T(+) Itpr3(tf)/J autistic mouse model by upregulating inflammatory mediators in CD45R-expressing cells. J Neuroimmunol. 2024 Jan
2. Farombi EO et al. Kolaviron ameliorates behavioural deficit and injury to striatal dopaminergic terminals via modulation of oxidative burden, DJ-1 depletion and CD45R(+) cells infiltration in MPTP-model of Parkinson's disease. Metab Brain Dis. 2020 Aug

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