

Anti-CD25 / IL-2 Receptor alpha Antibody [PSH14-46] HA601486



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|----------------------------|---|
| Product Type: | Recombinant Mouse monoclonal IgG1, primary antibodies |
| Species reactivity: | Human, Mouse |
| Applications: | FC, IHC-P, IF-Tissue |
| Molecular Wt: | Predicted band size: 31 kDa |
| Clone number: | PSH14-46 |

Description: The interleukin-2 receptor alpha chain (also called Tac antigen, P55, and mainly CD25) is a protein involved in the assembly of the high-affinity interleukin-2 receptor, consisting of alpha (IL2RA), beta (IL2RB) and the common gamma chain (IL2RG). As the name indicates, this receptor interacts with interleukin-2, a pleiotropic cytokine which plays an important role in immune homeostasis.

Immunogen: Recombinant protein within Human CD25 aa 22-240 (Extracellular).

Positive control: Human peripheral blood, mouse spleen tissue.

Subcellular location: Membrane.

Database links: SwissProt: P01589 Human | P01590 Mouse

Recommended Dilutions:

| | |
|------------------|---|
| FC | 1:1,000 (For concentrate), 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood (For predilute) |
| IHC-P | |
| IF-Tissue | 1:1,000 |
| | 1:1,000 |

Storage Buffer: 1*PBS (pH7.4), 1% BSA, 0.2% Proclean 950.

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

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Images

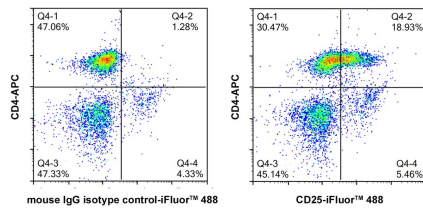


Fig1: Flow cytometric analysis of human peripheral blood cells labeling CD25 / IL-2 Receptor alpha (HA601486) and CD4 (HA600121F, APC).

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA601486, 1/1,000). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Mouse IgG Secondary antibody (HA1125) at 1/1,000 dilution for 30 minutes at +4°C. Compared with Mouse IgG Isotype Control (iFluor™ 488, 1/1,000).

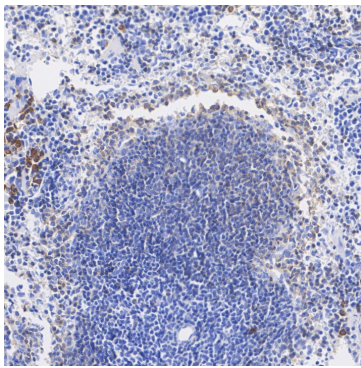


Fig2: Immunohistochemical analysis of paraffin-embedded mouse spleen tissue with Mouse anti-CD25 / IL-2 Receptor alpha antibody (HA601486) at 1/1,000 dilution.

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 (HA601486) 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.

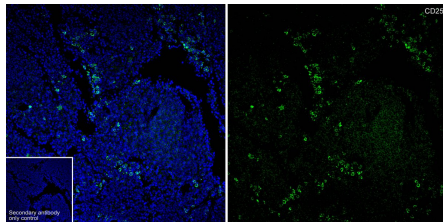


Fig3: Application: IF-Tissue

Species: Mouse

Site: spleen

Sample: Paraffin-embedded section

Antibody concentration: 1/1,000

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

Background References

1. Pan Z et al. IL2RA(+)VSIG4(+) tumor-associated macrophage is a key subpopulation of the immunosuppressive microenvironment in anaplastic thyroid cancer. *Biochim Biophys Acta Mol Basis Dis.* 2023 Jan
2. Nguyen CH et al. IL2RA Promotes Aggressiveness and Stem Cell-Related Properties of Acute Myeloid Leukemia. *Cancer Res.* 2020 Oct

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