

TECHNICAL DATA SHEET

PerCP/Cy5.5 anti-mouse CD25

Catalog No.	Size
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FMS025-100U	100 µg
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FMS025-25U	025 µg
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Clone:	4APC61
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Isotype:	Rat IgG1, lambda
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Reactivity:	Mouse
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Concentration:	0.2 mg/ml
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Storage Buffer:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
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Applications:	FC
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Storage Condition:	Store at 4 °C. DO NOT FREEZE. LIGHT SENSITIVE MATERIAL
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DESCRIPTION:

The 4APC61.5 antibody is specific for mouse CD25, a 55 kDa surface protein also known as the Interleukin-2 Receptor alpha chain, or IL-2R alpha. CD25 may bind IL-2 by itself, although with low affinity and without induction of cell signaling. CD25 is also expressed within a high-affinity complex, along with the IL-2R beta chain (CD122) and the common gamma chain (CD132), to form a signaling receptor complex. Expression of CD25 varies during developmental stages of T and B cells, is induced on activated mature T and B cells, and is present on subsets of dendritic cells. CD25 signaling as part of the IL-2 receptor complex triggers T cell activation and proliferation, as well as modulating the differentiation and function of Th17 cells, T regulatory (Treg) cells, and dendritic cells.

EXPERIMENTAL METHODS:

(The following is a general protocol, optimization is required for best results of your experiment. Please contact us by email or by phone for further technical support.)

1. Take 100 µl mouse splenocytes and add to the bottom of 5 ml tube;
2. Add appropriate labeled antibody to the bottom of flow tube mixing with the mouse splenocytes, incubate for 20 minutes at room temperature away from light;
3. Add 2 ml PBS wash buffer to resuspend the cells;
4. Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant;
5. Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant;
6. Add 0.5 ml PBS wash buffer to resuspend the cells and detect by flow cytometry (sample should be determined on the day on the machine and can also be added fixation overnight at 4 °C then measured);

[PBS wash buffer: PBS +1% FBS +0.1% NaN₃; Cat.: FXP005] [Cell fixation: 2% formaldehyde solution]

NOTICES:

1. This reagent has been pre-diluted for use at the recommended volume per test;
2. We typically use 1×10^6 cells in a 100 μ l experimental sample (a test);
3. Since applications vary, each investigator should titrate the reagent to obtain optimal results;
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing;
5. If the sample can not be timely analysis, please fixed;
6. ***For research use only, not for diagnostic or therapeutic use.***

REFERENCES:

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5. Wyder L, et al. 2000. Cancer Res. 60:4682. (IHC)
6. Wiewrodt R, et al. 2002. Blood 99:912. (IHC)
7. McQualter JL, et al. 2009. Stem Cells. 27:623. (IHC) PubMed
8. Chacko AM, et al. 2012. PLoS One 7:e34958.
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RELATED PRODUCTS:

Catalog No.	Product Name	Applications
FMU025	Purified anti-mouse CD25	FC
FMY025	NE Purified anti-mouse CD25	FC
FMF025	FITC Anti-Mouse CD25	FC
FMP025	PE anti-mouse CD25	FC