

## Anti-Human CD122-170Er

**Catalog #:** 3170004B

**Package Size:** 100 tests

**Storage:** Store product at 4°C. Do not freeze.

**Cross Reactivity:** Human

**Clone:** Tu27

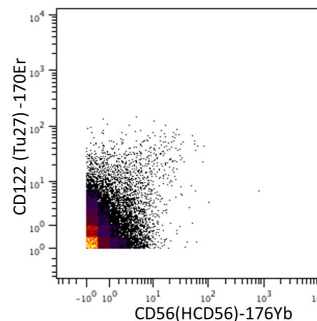
**Isotype:** Mouse IgG1

**Formulation:** Antibody stabilizer with 0.05% Sodium Azide

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended Usage:** The suggested use is 1 µl for up to 3 X 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 170Er-anti-CD122 (Tu27) and 176Yb-anti-CD56 (HCD56). Lymphocytes are displayed in the analysis.

### Description

CD122 (IL-2R $\beta$ ) is a 70-75 kDa member of the immunoglobulin superfamily that, along with CD25 (IL-2R $\alpha$ ) and CD132 (common  $\gamma$  chain) forms the receptor for the IL-2 cytokine. CD122 is constitutively expressed by NK cells, expressed at lower levels by a subset of T cells, and is upregulated on activated T cells. The  $\alpha$  and  $\beta$  chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the  $\gamma$ -chain, along with the  $\beta$  subunit. Recently, it has been proposed that a CD8+CD122+ population of T cells may play an immunoregulatory role.

### References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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