

# Anti-Human Invariant NK T-170Er

Catalog: 3170015B

Package Size: 100 tests

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

Reactivity: Rhesus, Pigtailed Macaque, Sooty Mangabey, Human,

Clone: 6B11

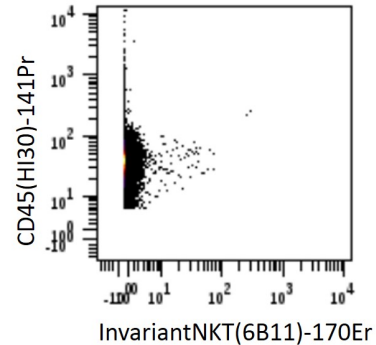
Isotype: IgG1

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-InvariantNKT(6B11) and 141Pr-anti-CD45(HI30). Total viable cells are displayed in the analysis.

## Description

Monoclonal antibody 6B11 reacts with a unique determinant in the CDR3 region of the invariant (Va24-JaQ) TCR chain. 6B11 identifies invariant NKT (iNKT) cells, which are a small subset of T lymphocytes that also express other NK cell molecules such as CD161. Va24-JaQ TCR interacts with the glycolipid loaded MHC class 1b molecule CD1d, inducing activation and subsequent cytokine production. CD1d-presented antigen resulting in rapid production of IL-4 and IFN (also known as IFN-γ). It has been reported that iNKT cells play an immunoregulatory role and participate in anti-tumor immunity and autoimmunity.

## 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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