

## Anti-Mouse TCR $\beta$ -143Nd

**Catalog #:** 3143010B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** H57-597

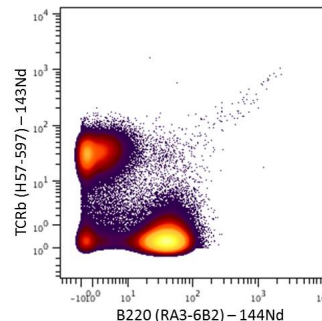
**Isotype:** Hamster IgG

**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  $\mu$ l for up to  $3 \times 10^6$  live cells in 100  $\mu$ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Mouse splenocytes stained with 143Nd-anti-TCR $\beta$  (H57-597) and 144Nd-anti-B220 (CD45R) (RA3-6B2).

### Description

TCR $\beta$ , together with TCR $\alpha$ , forms the heterodimeric T cell receptor (TCR) present on the surface of the majority of T cells and thymocytes. On the remaining 5% of T cells, the  $\alpha/\beta$  TCR is absent, and instead replaced by two alternate chains (TCR  $\gamma/\delta$ ). The complex of CD3 and TCR plays a key role in antigen recognition through binding to the major histocompatibility complex (MHC), resulting in T cell activation.

### 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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