

## Anti-Mouse IgD-150Nd

**Catalog #:** 3150011B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** 11-26c.2a

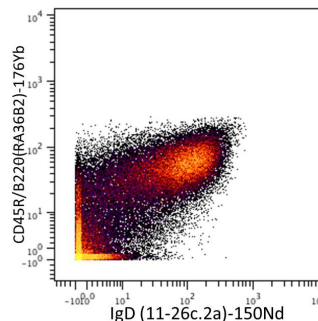
**Isotype:** Rat IgG2a

**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.



C57BL/6 mouse splenocytes stained with 176Yb-anti-CD45R/B220 (RA36B2) and 150Nd-anti-IgD (11-26c.2a). Lymphocytes are displayed in the analysis.

### Description

IgD is an immunoglobulin which is believed to act as a B cell receptor. IgD is co-expressed with IgM as a membrane Ig by most mature quiescent B cells, but not by early developing B cells of the bone marrow, or end-stage antibody-secreting plasma cells. Surface expression of IgD varies with B cell subset, with highest expression occurring in long-lived recirculating B cells that are abundant in follicles of the spleen and lymph nodes, on which IgD levels can exceed those of IgM. IgD is expressed at lower levels on B-1 cells, and on cells of the splenic marginal zone. IgD is also expressed on many semi-mature transitional B cells found in the spleen and bone marrow.

### 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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