

## Anti-Mouse LAP-164Dy

**Catalog #:** 3164014B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** TW7-16B4

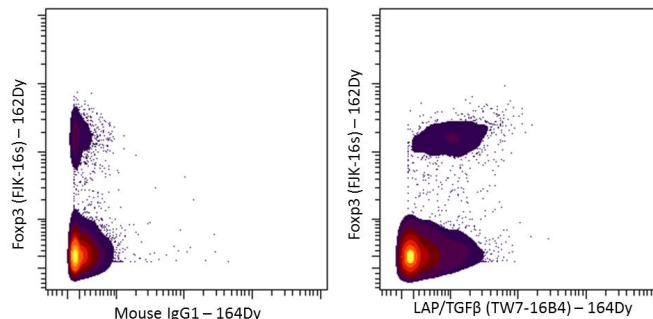
**Isotype:** Mouse IgG1

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

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> 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.



Mouse splenocytes were stimulated with anti-mouse CD3ε and CD28, and recombinant mouse IL-2 for 2 days and then surface stained with 164Dy-mouse IgG1K isotype control (left) or 164Dy-anti-LAP/TGFβ (TW7-16B4) (right), followed by intracellular staining with 162Dy-anti-Foxp3 (FK-16s). CD4+ T cells are displayed in the analysis.

### Description

Latency-associated peptide (LAP) is the N-terminal pro-peptide of the TGFβ precursor that noncovalently binds to TGFβ, forming a latent TGFβ complex and facilitating the release of TGFβ into the extracellular matrix. The activated TGFβ promotes the conversion of naive Tregs to iTregs and mediates Treg-associated immunosuppression. LAP is expressed on the cell membrane of many immune cells, including Tregs, and participates in immune regulation. TGFβ-dependent LAP-expressing Tregs have demonstrated suppressive ability in mice and humans. Thus, a subset of inducible LAP-positive Foxp3+CD4+ Tregs suppressed allergic inflammation in mice.

### 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.

### Contact Information:

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