

Anti-Mouse CD80-171Yb

Catalog #: 3171008B

Package Size: 100 tests

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

Cross Reactivity: Canine

Clone: 16-10A1

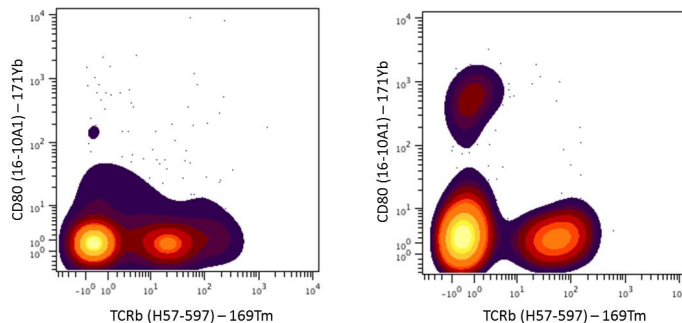
Isotype: Hamster IgG

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 µl for up to 3 X 10⁶ 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 cultured with either media alone (left) or with LPS (right) for 4 days and then stained with 171Yb-anti-CD80 (16-10A1) and 169Tm-anti-TCRb (H57-597).

Description

CD80 (B7.1) is a 60 kDa member of the B7 family of proteins. CD80 is constitutively expressed on dendritic cells and monocytes/macrophages, and inducibly expressed on T and B cells. While CD80 can bind to the immune-stimulatory CD28, it binds with higher affinity to the immune-inhibitory CTLA-4. The B7 ligands CD80 and CD86 and their receptors CD28 and CTLA-4 create a costimulatory-coinhibitory system that acts to regulate immune responses. Mice deficient in CD80 and CD86 have profound defects in both humoral and cellular immunity.

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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