

Anti-Human CD257-163Dy

Catalog: 3163013B

Package size: 100 tests

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

Clone: T7-241

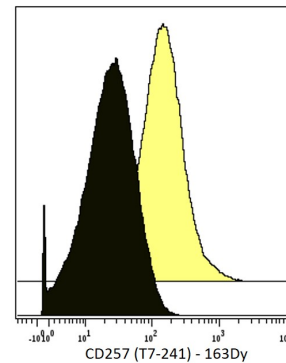
Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Technical Information

Validation: Each lot of conjugated antibody is quality control-tested by CyTOF[®] 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 × 10⁶ live cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human HeLa cells (top) and human PBMCs (bottom) were fixed, permeabilized, and stained with 163Dy-anti-CD257 (T7-241). Total viable cells are displayed in the analysis.

Description

The T7-241 monoclonal antibody reacts with human CD257, also known as BLyS (B lymphocyte stimulator), BAFF (B cell activating factor from the TNF family), TALL-1 (TNF and apoptosis leukocyte-expressed ligand-1), THANK (TNF homologue that activates apoptosis, nuclear factor kappa B and c-Jun NH2-terminal kinase), and zTNF4. BLyS, a member of the TNF family, is a type II membrane protein that exists in both membrane-bound and soluble forms with a molecular weight of approximately 31 kDa. IFN gamma regulates expression of membrane-bound CD257 on monocyte lineage. CD257 acts as a potent B cell growth factor and co-stimulator of Ig production. Transgenic mice with depleted CD257 develop severe B cell hyperplasia and autoimmune lupus-like disease characterized by the presence of autoantibodies against nuclear antigens. CD257 has been implicated in autoimmune disease based on animal model studies. To date BCMA, TACI, and BR3 have been identified as CD257 receptors.

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 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

For technical support visit <http://techsupport.fluidigm.com> | For general support visit www.fluidigm.com/support.

For Research Use Only. Not for use in diagnostic procedures.

This product contains antibodies manufactured by and sold under license from BioLegend[®] and licensees thereof. Information in this publication is subject to change without notice. **Safety data sheet information:** www.fluidigm.com/sds. **Patent and license information:** www.fluidigm.com/legalnotices. **EU's WEEE directive information:** www.fluidigm.com/compliance. Fluidigm, the Fluidigm logo, and CyTOF are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. © 2017 Fluidigm Corporation. All rights reserved. 05/2017