

# Anti-Human CD85d-161Dy

Catalog: 3161019B

Package Size: 100 tests

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

Reactivity: Human,

Clone: 42D1

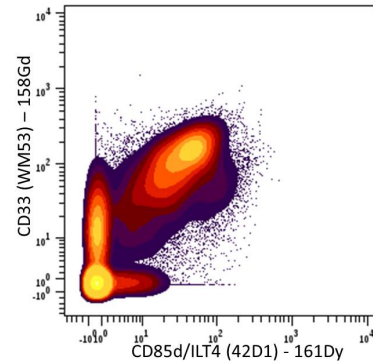
Isotype: IgG2a

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.



Human PBMCs stained with 158Gd-anti-CD33 (WM53) and 161Dy-anti-CD85d/ILT4 (42D1).

## Description

CD85 is a group of Ig superfamily transmembrane glycoproteins called Ig-Like Transcripts (ILTs) or Leukocyte Immunoglobulin-like Receptors (LIRs). It is composed of both activating and inhibitory isoforms. The activating subset of ILTs is characterized by containing short cytoplasmic domains and positively charged arginine residues, while the inhibitory isoforms display long cytoplasmic tails containing ITIM motifs. CD85d is a 95kD inhibitory receptor, also known as ILT4, LIR2, or MIR10. ILT4 is expressed on the surface of monocytes/macrophages, and dendritic cells. ILT4 acts as an inhibitory receptor through recruitment of SHP-1 and SHP-2 protein tyrosine phosphatases. The ligands of ILT4 are HLA-A, -B and nonclassical MHC-I molecule HLA-G1.

## 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.

### For technical support visit [fluidigm.com/support](http://fluidigm.com/support)

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