

Anti-Human CD95/Fas (DX2)-162Dy

Catalog number, package size: 3162038B, 100 tests
3162038C, 25 tests

Clone: DX2

Other Names: APO-1, TNFRSF6

Isotype: Mouse IgG1, κ

Reactivity: Human, Cynomolgus Monkey, Rhesus, Chimpanzee, Olive Baboon, Pigtailed Macaque, Sooty Mangabey, Capuchin Monkey, African Green, Tamarin, Marmoset

Tag: 162Dy

Formulation: Antibody stabilizer with 0.05% sodium azide

Storage: Store at 2–8 °C. Do not freeze.

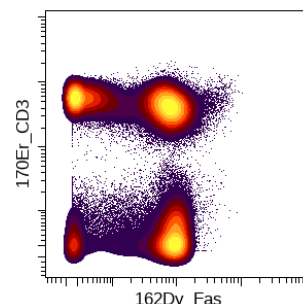
Application: CyTOF® suspension mass cytometry

Technical Information

Description: CD95, also known as FAS, APO-1, and TNFRSF6, is a 48 kDa member of the DR family, a subfamily of the tumor necrosis factor receptor superfamily. Members of the DR family are characterized by a cytoplasmic region termed the death domain (DD). Binding of CD95 by its ligand, CD95L (CD178) induces apoptosis in sensitive cells. Ligand binding to CD95 leads to formation of a receptor complex at the cell membrane including FADD/MORT, procaspase-8, procaspase-10, and c-FLIP, and results in formation of active caspase-8. CD95 is expressed on T and B lymphocytes, monocytes, neutrophils, and fibroblasts.

Application: The metal-tagged antibody is designed and formulated for the application of suspension mass cytometry using the Fluidigm CyTOF suspension systems on healthy human PBMC.

Validation: Each lot of conjugated antibody is quality control-tested by CyTOF suspension mass cytometry analysis of stained cells using appropriate positive and negative cell staining and/or activation controls.



Human PBMC stained with anti-CD3 (UCHT1)-170Er and anti-CD95/Fas (DX2)-162Dy. Cells shown are gated on total CD45+ cells.

Recommended use: Use 1 µL for up to 3×10^6 live cells in 100 µL staining volume. We recommend titrating the antibody for optimal performance for each of the desired applications. Centrifuge the stock antibody at $12,000 \times g$ for 5 min to sediment antibody aggregates. Fixation is typically used in intracellular staining protocols or in barcoding with the Cell-ID™ 20-Plex Pd Barcoding Kit (PN 201060). However, fixing before antibody staining can affect epitope structure and antibody binding, with the impact varying on the type and concentration of fixative and the protocol used. It is therefore important to perform a small, preliminary antibody staining experiment, with and without fixation, using non-critical samples.

Applicable Protocols

Before using this product, refer to the instructions in the Maxpar® Cell Surface Staining with Fresh Fix Protocol (400276).

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.

Gadalla, R. et al. "Validation of CyTOF against flow cytometry for immunological studies and monitoring of human cancer clinical trials." *Frontiers in Oncology* 9 (2019): 415.

Boddupalli, C.S. et al. "Interlesional diversity of T cell receptors in melanoma with immune checkpoints enriched in tissue-resident memory T cells." *JCI Insight* 1 (2016): e88955.

Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to fluidigm.com and search for 3000000X.

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