**Technical Data Sheet**

**Anti-Human CD134/OX40 (ACT35)-142Nd**

**Catalog number, package size:**
- 3142018B, 100 tests
- 3142018C, 25 tests

**Clone:** ACT35

**Other Names:** ACT35 antigen, tumor necrosis factor receptor superfamily member 4 (TNFRSF4)

**Isotype:** Mouse IgG1, κ

**Reactivity:** Human, Chimpanzee

**Tag:** 142Nd

**Formulation:** Antibody stabilizer with 0.05% sodium azide

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

**Application:** CyTOF® suspension mass cytometry

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**Technical Information**

**Description:** CD134, also known as OX40 and TNFRSF14, is a 50 kDa type I transmembrane glycoprotein and a member of the TNF receptor family. OX40 is expressed on activated T lymphocytes including Th1, Th2, Th17, and Treg cells. The interaction of OX40 with OX40L results in B cell proliferation and antibody secretion, regulation of primary T cell expansion, and T cell survival. OX40 influences the size of the T cell memory pool and regulation of CD4+ T cell tolerance.

**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.

**Recommended use:** Use 1 µL for up to 3 x 10⁶ 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 × 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**


**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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