

## TECHNICAL DATA SHEET

### CyFlow™ CD134 PE Anti-Hu; Clone Ber-ACT35

**REF** BV467980

**For Research Use Only.**  
**Not for use in diagnostic or therapeutic procedures.**

### Specifications

|                                    |                                  |
|------------------------------------|----------------------------------|
| <b>Antigen</b>                     | CD134                            |
| <b>Alternative Names</b>           | OX40, TNFRSF4                    |
| <b>Clone</b>                       | Ber-ACT35                        |
| <b>Clonality</b>                   | monoclonal                       |
| <b>Format</b>                      | PE                               |
| <b>Host / Isotype</b>              | Mouse / IgG1                     |
| <b>Species Reactivity</b>          | Human, Non-Human Primates        |
| <b>Negative Species Reactivity</b> | —                                |
| <b>Quantity</b>                    | 100 tests                        |
| <b>Immunogen</b>                   | HTLV 1-transformed HUT-102 cells |

### Specificity

The mouse monoclonal antibody Ber-ACT35 (also known as ACT35) recognizes CD134 antigen, a 50 kDa type I transmembrane glycoprotein expressed on activated T cells.

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## Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| <b>Storage</b>   | Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze. |
| <b>Stability</b> | Do not use after expiration date stamped on vial label.                       |

## Background Information

CD134 (TNFRSF4, OX40) is a type I transmembrane glycoprotein of TNF/NGF receptor family expressed on activated T cells, fibroblasts, and hematopoietic precursors. Binding to its ligand (OX40L, TNFSF4) on antigen presenting cells gives to the T cell costimulatory signal, and this interaction results also in B cell proliferation and influences T cell memory pool. CD134 is upregulated at sites of inflammation, especially in case of multiple sclerosis and psoriatic lesions.

## References

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- Li M, Zhang Y: The effect of anti-human CD134 monoclonal antibody on phytohemagglutinin-induced mRNA expression of perforin in peripheral blood mononuclear cells. Cell Mol Immunol. 2005 Dec; 2(6):467-71. < PMID: 16426498 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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