

## TECHNICAL DATA SHEET

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

**REF** BF983033

**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>	Purified
<b>Host / Isotype</b>	Mouse / IgG1
<b>Species Reactivity</b>	Human, Non-Human Primates
<b>Negative Species Reactivity</b>	—
<b>Quantity [Concentration]</b>	0.1 mg [ 1 mg/ml ]
<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.

#### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

## Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry
- Enzyme-linked immunosorbent assay

## Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH  $\approx$ 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

- Jones D, Fletcher CD, Pulford K, Shahsafaei A, Dorfman DM: The T-cell activation markers CD30 and OX40/CD134 are expressed in nonoverlapping subsets of peripheral T-cell lymphoma. *Blood*. 1999 May 15; 93(10):3487-93. < PMID: 10233901 >
- Aten J, Roos A, Claessen N, Schilder-Tol EJ, Ten Berge IJ, Weening JJ: Strong and selective glomerular localization of CD134 ligand and TNF receptor-1 in proliferative lupus nephritis. *J Am Soc Nephrol*. 2000 Aug; 11(8):1426-38. < PMID: 10906156 >
- 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 >

---

### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

- Endl J, Rosinger S, Schwarz B, Friedrich SO, Rothe G, Karges W, Schlosser M, Eiermann T, Schendel DJ, Boehm BO: Coexpression of CD25 and OX40 (CD134) receptors delineates autoreactive T-cells in type 1 diabetes. *Diabetes*. 2006 Jan; 55(1):50-60. < PMID: 16380476 >
- Willett BJ, McMonagle EL, Ridha S, Hosie MJ: Differential utilization of CD134 as a functional receptor by diverse strains of feline immunodeficiency virus. *J Virol*. 2006 Apr; 80(7):3386-94. < PMID: 16537606 >
- Tanijiri T, Shimizu T, Uehira K, Yokoi T, Amuro H, Sugimoto H, Torii Y, Tajima K, Ito T, Amakawa R, Fukuhara S: Hodgkin's reed-sternberg cell line (KM-H2) promotes a bidirectional differentiation of CD4+CD25+Foxp3+ T cells and CD4+ cytotoxic T lymphocytes from CD4+ naive T cells. *J Leukoc Biol*. 2007 Sep; 82(3):576-84. < PMID: 17545218 >
- Voo KS, Bover L, Harline ML, Vien LT, Facchinetti V, Arima K, Kwak LW, Liu YJ: Antibodies targeting human OX40 expand effector T cells and block inducible and natural regulatory T cell function. *J Immunol*. 2013 Oct 1; 191(7):3641-50. < PMID: 24014877 >

---

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

---

---

**Contact Information:**

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)