



11-152-C025

Monoclonal Antibody to CD134 Purified Antibody (0.025 mg)

Clone:	Ber-ACT35
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody Ber-ACT35 (also known as ACT35) recognizes CD134 (TNFRSF4, OX40), an approximately 50 kDa type I transmembrane glycoprotein expressed on activated T cells. HLDA VI: WS Code C-31
Regulatory Status:	RUO
Immunogen:	HTLV 1-transformed HUT-102 cells
Species Reactivity:	Human, Non-Human Primates
Application:	Flow Cytometry Immunoprecipitation Western Blotting Immunohistochemistry (paraffin sections) Immunohistochemistry (frozen sections) ELISA
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD134 (TNFRSF4, also known as 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.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

- *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.
- *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.
- *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.
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- *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.
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- *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.

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