

1P-152-T025

Monoclonal Antibody to CD134 Phycoerythrin (PE) conjugated (25 tests)

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
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
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:**

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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.
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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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