

Datasheet for ABIN2749174
anti-TNFRSF4 antibody (PE)



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Overview

Quantity:	100 tests
Target:	TNFRSF4
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TNFRSF4 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	HTLV 1-transformed HUT-102 cells
Clone:	Ber-ACT35
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody Ber-ACT35 (also known as ACT35) recognizes an extracellular epitope of CD134 (TNFRSF4, OX40), an approximately 50 kDa type I transmembrane glycoprotein expressed on activated T cells.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	TNFRSF4
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Target Details

Alternative Name:	CD134 (TNFRSF4 Products)
Background:	TNF receptor superfamily member 4,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.,TNFRSF4, OX40, ACT35, IMD16, TXGP1L
Gene ID:	7293
UniProt:	P43489
Pathways:	Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints

Application Details

Application Notes:	Flow cytometry: The reagent is designed for 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 (1 ml) is sufficient for 100 tests.
Comment:	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.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Voo, Bover, Harline, Vien, Facchinetti, Arima, Kwak, Liu: "Antibodies targeting human OX40
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expand effector T cells and block inducible and natural regulatory T cell function." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 191, Issue 7, pp. 3641-50, (2013) ([PubMed](#)).

Tanijiri, Shimizu, Uehira, Yokoi, Amuro, Sugimoto, Torii, Tajima, Ito, Amakawa, Fukuhara: "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." in: **Journal of leukocyte biology**, Vol. 82, Issue 3, pp. 576-84, (2007) ([PubMed](#)).

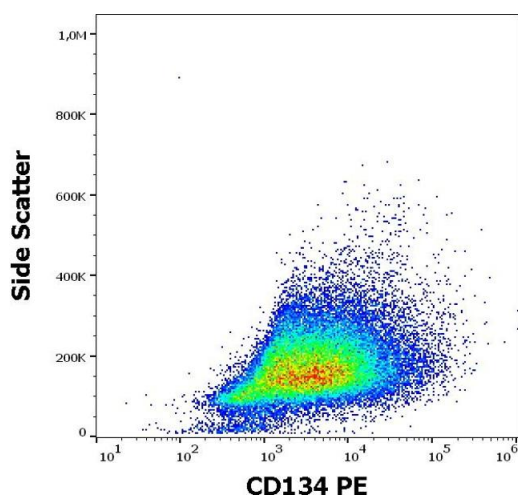
Li, Zhang: "The effect of anti-human CD134 monoclonal antibody on phytohemagglutinin-induced mRNA expression of perforin in peripheral blood mononuclear cells." in: **Cellular & molecular immunology**, Vol. 2, Issue 6, pp. 467-71, (2006) ([PubMed](#)).

Willett, McMonagle, Ridha, Hosie: "Differential utilization of CD134 as a functional receptor by diverse strains of feline immunodeficiency virus." in: **Journal of virology**, Vol. 80, Issue 7, pp. 3386-94, (2006) ([PubMed](#)).

Endl, Rosinger, Schwarz, Friedrich, Rothe, Karges, Schlosser, Eiermann, Schendel, Boehm: "Coexpression of CD25 and OX40 (CD134) receptors delineates autoreactive T-cells in type 1 diabetes." in: **Diabetes**, Vol. 55, Issue 1, pp. 50-60, (2005) ([PubMed](#)).

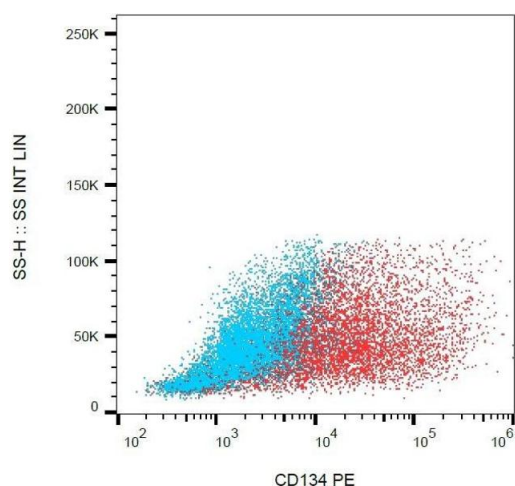
There are more publications referencing this product on: [Product page](#)

Images



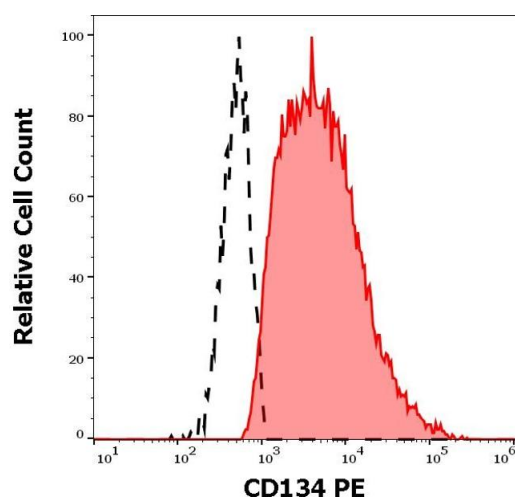
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD134 (Ber-ACT35) PE antibody (10 µL reagent per million cells in 100 µL of cell suspension).



Flow Cytometry

Image 2. Surface staining of human PMA + ionomycin activated PBMC with anti-human CD134 (Ber-ACT35) PE.



Flow Cytometry

Image 3. Separation of human CD134 positive CD25 positive cells (red-filled) from CD134 negative CD25 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD134 (Ber-ACT35) PE antibody (10 μ L reagent per milion cells in 100 μ L of cell suspension).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2749174.