

PE/Cyanine5 anti-human CD134 (OX40) Antibody

Catalog# / Size	350041 / 25 tests
Clone	Ber-ACT35 (ACT35)
Regulatory Status	RUO
Other Names	ACT35 antigen, tumor necrosis factor receptor superfamily member 4 (TNFRSF4)
Isotype	Mouse IgG1, κ
Description	CD134, also known as OX40 and TNFRSF4, is a 50 kD type I transmembrane glycoprotein. It is a member of the TNF receptor family. OX40 is expressed on activated T lymphocytes including Th1, Th2, Th17, and Treg cells. The interaction of OX40 with OX40L results in B cell proliferation and antibody secretion, regulation of primary T cell expansion, and T cell survival. OX40 influences the size of the T cell memory pool and regulation of CD4 ⁺ T cell tolerance.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	HTLV 1-transformed HUT 102 cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine5 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting ¹ , immunoprecipitation ¹ , immunohistochemical staining ^{2,3} of paraffin embedded ⁷ and frozen tissue sections, ELISA ⁴ , and functional assay ⁵ . The LEAF™ or Ultra-LEAF™ purified antibody is recommended for functional assays (contact our custom solutions team).
Application References	<ol style="list-style-type: none"> 1. Latza U, <i>et al.</i> 1994. <i>Eur. J. Immunol.</i> 24:677. (WB, IP) 2. Durkop H, <i>et al.</i> 1995. <i>Brit. J. Haematol.</i> 91:927. (IHC) 3. Durkop H, <i>et al.</i> 1997. <i>Brit. J. Haematol.</i> 98:863. (IHC) 4. Willett B, <i>et al.</i> 2007. <i>J. Virol.</i> 81:9665. (ELISA) 5. Li M and Zhang Y. <i>et al.</i> 2005. <i>Cell. Mol. Immunol.</i> 2:467. (FA) 6. Gloviczki ML, <i>et al.</i> 2012. <i>Clin. J. Am. Soc. Nephrol.</i> 8:546. PubMed 7. Domingos PL, <i>et al.</i> 2012. <i>An. Bras. Dermatol.</i> 87:851. (IHC)
(PubMed link indicates BioLegend citation)	
RRID	AB_2894615 (BioLegend Cat. No. 350041)

Antigen Details

Structure	50 kD, TNF receptor family
Distribution	Activated T cells
Function	Receptor for OX40 ligand, co-stimulatory signal for T cell proliferation and survival.
Ligand/Receptor	OX40L (CD252)
Cell Type	T cells, Tregs
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Costimulatory Molecules, Immunology
Molecular Family	CD Molecules, Immune Checkpoint Receptors
Antigen References	<ol style="list-style-type: none">1. Smith CA, <i>et al.</i> 1994. <i>Cell</i>. 76:959.2. Chen AL, <i>et al.</i> 1999. <i>Immunity</i>. 11:689.3. Croft M. 2010. <i>Annu. Rev. Immunol.</i> 28:57.4. Ruby CE, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:5079.5. Klinger M, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:4581.
Gene ID	7293

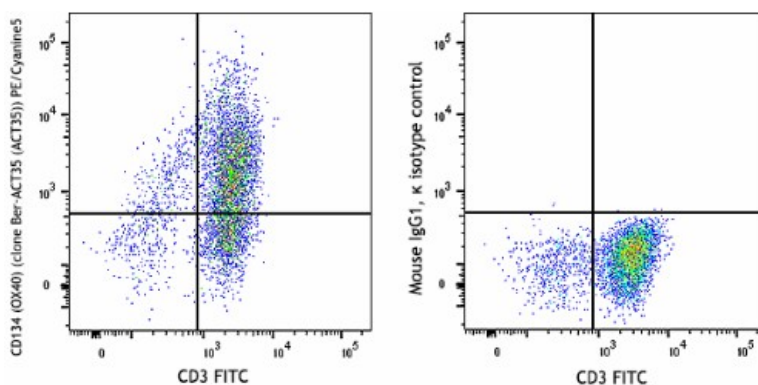
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-human CD134 (OX40), Purified anti-human CD134 (OX40), PE anti-human CD134 (OX40), APC anti-human CD134 (OX40), PerCP/Cyanine5.5 anti-human CD134 (OX40), PE/Cyanine7 anti-human CD134 (OX40), Brilliant Violet 421™ anti-human CD134 (OX40), Purified anti-human CD134 (OX40) (Maxpar® Ready), Alexa Fluor® 647 anti-human CD134 (OX40), PE/Dazzle™ 594 anti-human CD134 (OX40), APC/Cyanine7 anti-human CD134 (OX40), Biotin anti-human CD134 (OX40), Brilliant Violet 510™ anti-human CD134 (OX40), Brilliant Violet 605™ anti-human CD134 (OX40), APC/Fire™ 750 anti-human CD134 (OX40), Brilliant Violet 711™ anti-human CD134 (OX40), TotalSeq™-A0158 anti-human CD134 (OX40), TotalSeq™-C0158 anti-human CD134 (OX40), TotalSeq™-B0158 anti-human CD134 (OX40), TotalSeq™-D0158 anti-human CD134 (OX40), PE/Cyanine5 anti-human CD134 (OX40), PE/Fire™ 810 anti-human CD134 (OX40)

Product Data



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with anti-human CD3 FITC and anti-human CD134 (OX40) (clone Ber-ACT35 (ACT35)) PE/Cyanine5 (left) or mouse IgG1, κ PE/Cyanine5 isotype control (right).

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