

Brilliant Violet 650™ anti-human CD134 (OX40) Antibody

Catalog# / Size	350049 / 25 tests 350050 / 100 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 Brilliant Violet 650™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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	<p>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.</p> <p>Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)

Application Notes Additional reported applications (for the relevant formats) include: Western blotting¹, immunoprecipitation¹, immunohistochemical staining^{2,3} of paraffin embedded⁷ and frozen tissue sections, ELISA⁴, and functional assay⁵. The LEAF™ or Ultra-LEAF™ purified antibody is recommended for functional assays (contact our [custom solutions team](#)).

Application References

(PubMed link indicates BioLegend citation)

1. Latza U, *et al.* 1994. *Eur. J. Immunol.* 24:677. (WB, IP)
2. Durkop H, *et al.* 1995. *Brit. J. Haematol.* 91:927. (IHC)
3. Durkop H, *et al.* 1997. *Brit. J. Haematol.* 98:863. (IHC)
4. Willett B, *et al.* 2007. *J. Virol.* 81:9665. (ELISA)
5. Li M and Zhang Y. *et al.* 2005. *Cell. Mol. Immunol.* 2:467. (FA)
6. Gloviczki ML, *et al.* 2012. *Clin. J. Am. Soc. Nephrol.* 8:546. [PubMed](#)
7. Domingos PL, *et al.* 2012. *An. Bras. Dermatol.* 87:851. (IHC)

RRID AB_3662250 (BioLegend Cat. No. 350049)
AB_3662250 (BioLegend Cat. No. 350050)

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

1. Smith CA, *et al.* 1994. *Cell.* 76:959.
2. Chen AL, *et al.* 1999. *Immunity.* 11:689.
3. Croft M. 2010. *Annu. Rev. Immunol.* 28:57.
4. Withers DR, *et al.* 2009. *J. Immunol.* 183:5079.
5. Klinger M, *et al.* 2009. *J. Immunol.* 182:4581.

Gene ID [7293](#)

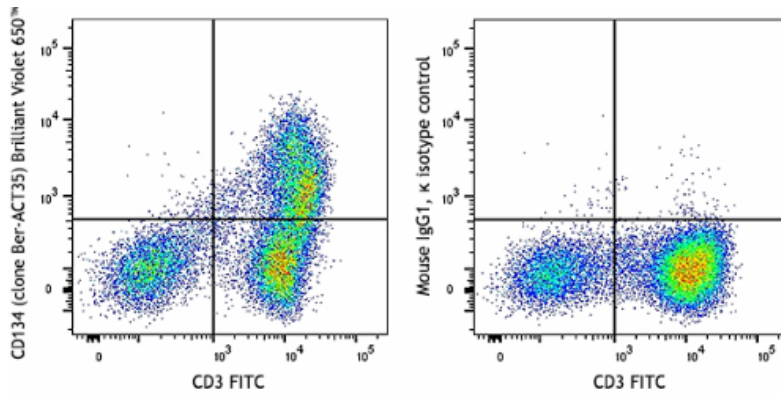
Related Protocols

- [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), PE anti-human CD134, PE/Fire™ 744 anti-human CD134 (OX40), Brilliant Violet 785™ anti-human CD134 (OX40), Brilliant Violet 650™ anti-human CD134 (OX40), GMP PE anti-human CD134

Product Data



PHA-stimulated (3-days) human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) FITC and anti-human CD134 (OX40) (clone Ber-ACT35) Brilliant Violet 650™ (left) or mouse IgG1, κ Brilliant Violet 650™ isotype control (right).

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