

## Biotin anti-human CD134 (OX40) Antibody

<b>Catalog# / Size</b>	350024 / 100 µg
<b>Clone</b>	Ber-ACT35 (ACT35)
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	ACT35 antigen, tumor necrosis factor receptor superfamily member 4 (TNFRSF4)
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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 <sup>+</sup> T cell tolerance.

### Product Details

---

<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Chimpanzee
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	HTLV 1-transformed HUT 102 cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: Western blotting <sup>1</sup> , immunoprecipitation <sup>1</sup> , immunohistochemical staining <sup>2,3</sup> of paraffin embedded <sup>7</sup> and frozen tissue sections, ELISA <sup>4</sup> , and functional assay <sup>5</sup> . The LEAF™ or Ultra-LEAF™ purified antibody is recommended for functional assays (contact our <a href="#">custom solutions team</a> ).
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Latza U, <i>et al.</i> 1994. <i>Eur. J. Immunol.</i> 24:677. (WB, IP)</li> <li>2. Durkop H, <i>et al.</i> 1995. <i>Brit. J. Haematol.</i> 91:927. (IHC)</li> <li>3. Durkop H, <i>et al.</i> 1997. <i>Brit. J. Haematol.</i> 98:863. (IHC)</li> <li>4. Willett B, <i>et al.</i> 2007. <i>J. Virol.</i> 81:9665. (ELISA)</li> <li>5. Li M and Zhang Y. <i>et al.</i> 2005. <i>Cell. Mol. Immunol.</i> 2:467. (FA)</li> <li>6. Gloviczki ML, <i>et al.</i> 2012. <i>Clin. J. Am. Soc. Nephrol.</i> 8:546. <a href="#">PubMed</a></li> <li>7. Domingos PL, <i>et al.</i> 2012. <i>An. Bras. Dermatol.</i> 87:851. (IHC)</li> </ol>
<b>RRID</b>	AB_2571943 (BioLegend Cat. No. 350024)

### Antigen Details

---

<b>Structure</b>	50 kD, TNF receptor family
------------------	----------------------------

<b>Distribution</b>	Activated T cells
<b>Function</b>	Receptor for OX40 ligand, co-stimulatory signal for T cell proliferation and survival.
<b>Ligand/Receptor</b>	OX40L (CD252)
<b>Cell Type</b>	T cells, Tregs
<b>Biology Area</b>	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules, Immune Checkpoint Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Smith CA, <i>et al.</i> 1994. <i>Cell</i>. 76:959.</li> <li>2. Chen AL, <i>et al.</i> 1999. <i>Immunity</i>. 11:689.</li> <li>3. Croft M. 2010. <i>Annu. Rev. Immunol.</i> 28:57.</li> <li>4. Ruby CE, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:5079.</li> <li>5. Klinger M, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:4581.</li> </ol>
<b>Gene ID</b>	<a href="#">7293</a>

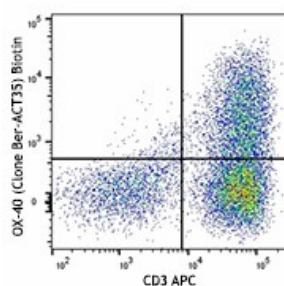
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

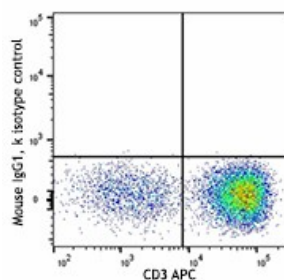
## Other Formats

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 CD3 APC and biotinylated OX-40 (clone Ber-ACT35) (top), or biotinylated mouse IgG1, κ isotype control (bottom), followed by SAV-PE.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587