

## PE/Fire™ 810 anti-human CD134 (OX40) Antibody

<b>Catalog# / Size</b>	350043 / 25 tests
<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

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<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 and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 810 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>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 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>* PE/Fire™ 810 has a maximum excitation of 488/561 nm and a maximum emission of 810 nm.</p> <p>Excessive exposure to light, and commonly used fixation, permeabilization buffers can affect PE/Fire™ 810 fluorescence signal intensity and spread. Please keep conjugates protected from light exposure. For more information and representative data, visit our <a href="#">Fire Dyes</a> page.</p>
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<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></ol>
<b>(PubMed link indicates BioLegend citation)</b>	

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\_2924549 (BioLegend Cat. No. 350043)

## 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>

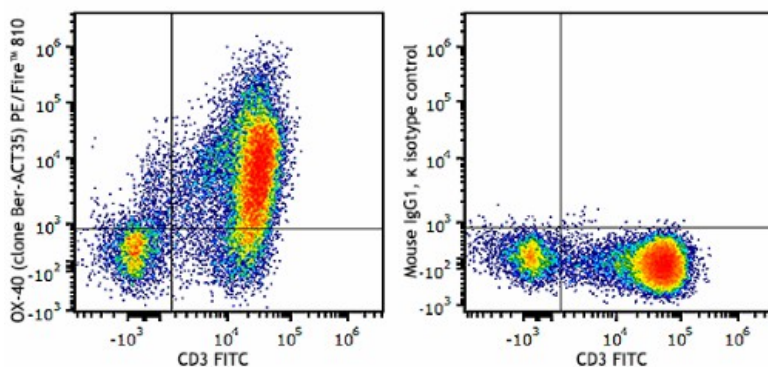
## Related Protocols

[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



Human peripheral blood lymphocytes were activated for 3 days with PHA, and then stained with anti-human CD3 FITC and anti-human OX-40 (clone Ber-ACT35) PE/Fire™ 810 (left) or stained with anti-human CD3 FITC (right) only.

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