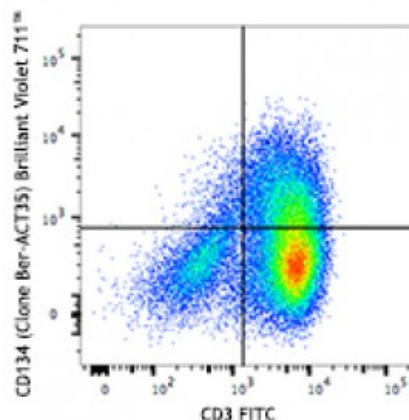


**Brilliant Violet 711™ anti-human CD134 (OX40)**

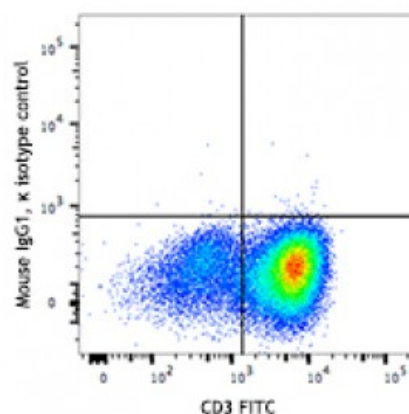
<b>Catalog # / Size:</b>	2350145 / 25 tests 2350150 / 100 tests
<b>Clone:</b>	Ber-ACT35 (ACT35)
<b>Isotype:</b>	Mouse IgG1, κ
<b>Immunogen:</b>	HTLV 1-transformed HUT 102 cells
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
<b>Concentration:</b>	0.5



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with CD3 FITC and CD134 (clone Ber-ACT35) Brilliant Violet 711™ (top), or mouse IgG1, κ isotype control (bottom).

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ is a trademark of Sirigen Group Ltd.
<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 [custom solutions team](#)).

- Application** 1. Latza U, *et al.* 1994. *Eur. J. Immunol.* 24:677. (WB, IP)
- References:** 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)
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**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<sup>+</sup> T cell tolerance.

- Antigen** 1. Smith CA, *et al.* 1994. *Cell.* 76:959.
- References:** 2. Chen AL, *et al.* 1999. *Immunity.* 11:689.
3. Croft M. 2010. *Annu. Rev. Immunol.* 28:57.
4. Ruby CE, *et al.* 2009. *J. Immunol.* 183:5079