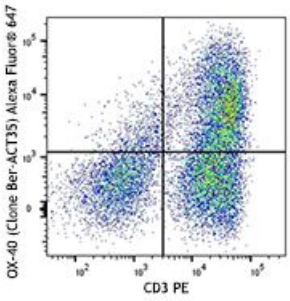
SONY

Product Data Sheet

Alexa Fluor® 647 anti-human CD134 (OX40)

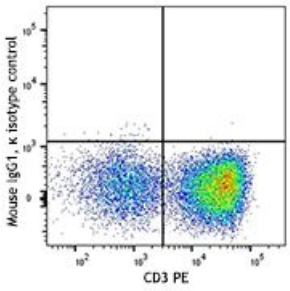
Catalog # / Size:	2350085 / 25 tests 2350090 / 100 tests
Clone:	Ber-ACT35 (ACT35)
Isotype:	Mouse IgG1, κ
Immunogen:	HTLV 1-transformed HUT 102 cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	0.5



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with CD3 PE and OX-40 (clone Ber-ACT35) Alexa Fluor® 647 (top), or mouse IgG1, κ Alexa Fluor® 647 isotype control (bottom).

Applications:

Applications:	Flow Cytometry
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 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. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: Western blotting1, immunoprecipitation1, immunohistochemical staining[2,3]of paraffin embedded[7] 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:
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)

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.

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. Ruby CE, *et al.* 2009. *J. Immunol.* 183:5079