SONY

Product Data Sheet

APC/Fire™ 750 anti-human CD134 (OX40)

Catalog # / Size: 2350160 / 100 tests
2350155 / 25 tests

Clone: Ber-ACT35 (ACT35)

Isotype: Mouse IgG1, κ

Immunogen: HTLV 1-transformed HUT 102 cells

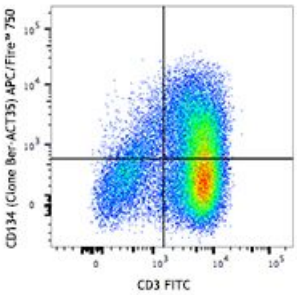
Reactivity: Human, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire&trade

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: 750 under optimal conditions.

Concentration: Lot-specific



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with CD3 FITC and CD134 (clone Ber-ACT35) APC/Fire™ 750 (top), or mouse IgG1, κ isotype control (bottom).

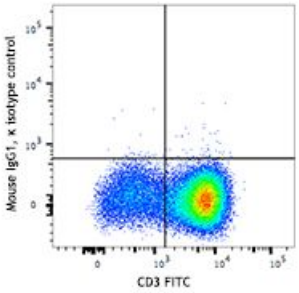
Applications:

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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Additional reported applications (for the relevant formats) include: Western blotting[1], immunoprecipitation[1], immunohistochemical staining[2,3]of paraffin embedded[7] and frozen tissue sections, ELISA[4], and functional assay[5].



Human peripheral blood lymphocytes were stained with anti-human CD4 FITC and anti-human CD25 (clone M-A251) Spark YG™ 581 (left) or anti-human CD4 FITC only (right).

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)

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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 $CD4^+$ 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.
5. Klinger M, *et al.* 2009. *J. Immunol.* 182:4581.