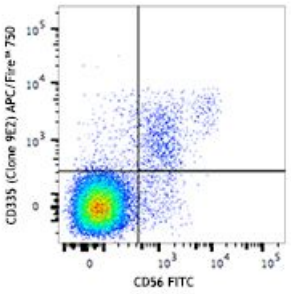
SONY

Product Data Sheet

APC/Fire™ 750 anti-human CD335 (NKp46)

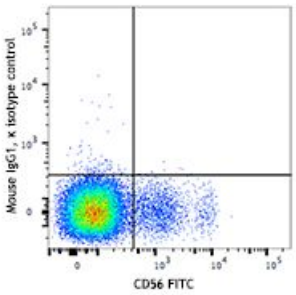
Catalog # / Size:	2259670 / 100 tests 2259665 / 25 tests
Clone:	9E2
Isotype:	Mouse IgG1, κ
Immunogen:	NKp46-Fc fusion protein
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Formulation:	Phosphate-buffered 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



Human peripheral blood lymphocytes were stained with CD56 FITC and CD335 (clone 9E2) APC/Fire™ 750 (top) or mouse IgG1, κ APC/Fire™ 750 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:	Clone 9E2 has been shown to block NK activation through NKp46.[6]



Application References:

1. Nakajima H, *et al.* 2000. *Eur. J. Immunol.* 30:3309.
2. Kalberer CP, *et al.* 2003. *Blood* 102:127.
3. Chen Y, *et al.* 2007. *J. Immunol.* 179:2766.
4. Jarahian M, *et al.* 2009. *J. Virol.* 83:8108. PubMed
5. Correia DV, *et al.* 2011. *Blood* 118:992. (FC) PubMed
6. Achdout H. *et al.* 2010. *J. Virol.* 84:3993.

Description: CD335, also known as NKp46, is a member of the natural cytotoxicity receptor (NCR) family which triggers cytotoxicity in NK cells. CD335 is direct-ly involved in target cell recognition and lysis, and is exclusively expressed on $CD3^{-}CD56^{+}$ NK cells, suggesting it is a universal marker for NK cells. NKp46, along with NKp30 and NKp44, is referred to as a natural cytoxicity receptor (NCR) and plays a very important role in killing virus-infected tumor cells and MHC-class I-unprotected cells.

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Antigen References:
1. Mandelboim O and Porgador A. 2001. *Int. J. Biochem. Cell Biol.* 33:1147.
2. Nakajima H, *et al.* 2000. *Eur. J. Immunol.* 30:3309.
3. Sivori S. 1999. *Eur. J. Immunol.* 29:1656.