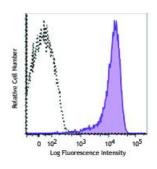
## APC/Fire<sup>™</sup> 750 anti-human CD69

Catalog # / Size:	2154725 / 25 tests 2154730 / 100 tests
Clone:	FN50
lsotype:	Mouse IgG1, к
<b>Reactivity:</b>	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™
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 stimulated with PMA + ionomycin for 6 hours and then stained with CD69 (clone FN50) APC/Fire<sup>™</sup> 750 (filled histogram) or mouse IgG1, ĸ APC/Fire<sup>™</sup> 750 isotype control (open histogram).

## **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 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l 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: immunohistochemical staining of acetone-fixed frozen tissue sections <sup>2</sup> and immunofluorescence microscopy <sup>3</sup> .
Application References:	<ol> <li>Knapp WB, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York.</li> <li>Sakkas LI, <i>et al.</i> 1998. <i>Clin. and Diag. Lab. Immunol.</i> 5:430. (IHC)</li> <li>Kim JR, <i>et al.</i> 2005. <i>BMC Immunol.</i> 6:3. (IF)</li> <li>Verjans GM, <i>et al.</i> 2007. <i>P. Natl. Acad. Sci. USA</i> 104:3496.</li> <li>Lu H, <i>et al.</i> 2009. <i>Toxicol Sci.</i> 112:363. (FC) <u>PubMed</u></li> <li>Thakral D, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7431. (FC) <u>PubMed</u></li> <li>Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC)</li> </ol>

**Description:** CD69 is a 27-33 kD type II transmembrane protein also known as activation inducer molecule (AIM), very early activation antigen (VEA), and MLR3. It is a member of the C-type lectin family, expressed as a disulfide-linked homodimer. Other members of this receptor family include NKG2, NKR-P1 CD94, and Ly49. CD69 is transiently expressed on activated leukocytes including T cells, thymocytes, B cells, NK cells, neutrophils, and eosinophils. CD69 is constitutively expressed by a subset of medullary mature thymocytes, platelets, mantle B cells, and certain CD4<sup>+</sup> T cells in germinal centers of normal lymph nodes. CD69 is involved in early events of lymphocyte, monocyte, and platelet activation, and has a functional role in redirected lysis mediated by activated NK cells.

Antigen
 1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University
 Press. New York.
 2. Testi R, *et al.* 1994. *Immunol. Today* 15:479.