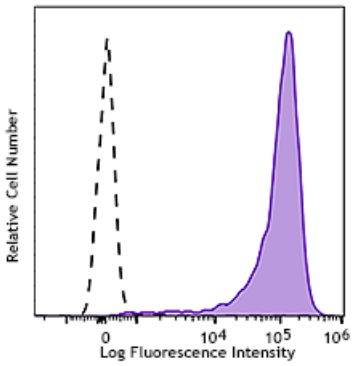
SONY

Product Data Sheet

Spark NIR™ 685 anti-mouse CD69

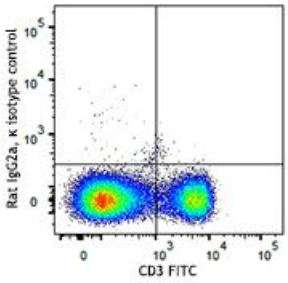
Catalog # / Size:	1122790 / 100 µg 1122785 / 25 µg
Clone:	H1.2F3
Isotype:	Hamster IgG
Immunogen:	Mouse dendritic epidermal T cell line Y245
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Spark NIR™ 685 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Workshop Number:	750 under optimal conditions.
Concentration:	0.5 mg/mL



PMA and ionomycin stimulated C57BL/6 mouse splenocytes (six hours) were stained with CD69 (clone H1.2F3) Spark NIR™ 685 (filled histogram) or cells only (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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark NIR™ 685 has a maximum excitation of 665 nm and a maximum emission of 685 nm.
Application Notes:	The H1.2F3 antibody has been reported to augment T cell activation. Additional reported applications (for the relevant formats) include: *in vitro* T cell and NK cell activation[1-3], immunohistochemistry[4,5], and immunoprecipitation[1]. This antibody has been characterized in the literature as containing a lambda (?) light chain.



Application References:

1. Yokoyama WM, *et al.* 1988. *J. Immunol.* 141:369. (IP)
2. Sobel ES, *et al.* 1993. *J. Immunol.* 150:673.
3. Karlhofer FM, *et al.* 1991. *J. Immunol.* 146:3662.
4. Zhou X, *et al.* 2005. *J. Biol. Chem.* 280:31240. (IHC)
5. Podd BS, *et al.* 2006. *J. Immunol.* 176:6532. (IHC)
6. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366.
7. Lee JW, *et al.* 2006. *Nature Immunol.* 8:181.
8. Epardaud M, *et al.* 2008. *Cancer Res.* 15:2972. PubMed
9. Jordan JM, *et al.* 2008. 76:3717. PubMed
10. Kenna TJ, *et al.* 2008. *Blood* 111:2091. PubMed
11. Ishikawa C, *et al.* 2013. *Biochim Biophys Acta.* 167:99. PubMed

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Description: CD69 is a 60 kD type II membrane protein composed of a 27/33 kD disulfide-linked homodimer, also known as Very Early Activation Antigen (VEA), AIM, EA1, MLR3, and gp34/28. It is expressed on a subset of thymocytes and platelets. CD69 is rapidly induced on activated T and B cells, neutrophils, and NK cells. It is a C-type lectin, closely related to the NKR-P1 and Ly-49 NK cell activation molecules. CD69 is involved in the early events of cell activation and thymocyte positive selection.

Antigen References:

1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Testi R, *et al.* 1994. *Immunol. Today* 15:479.
3. Moretta A, *et al.* 1991. *J. Exp. Med.* 174:1393.
4. Yokoyama WM, *et al.* 1988. *J. Immunol.* 141:369.