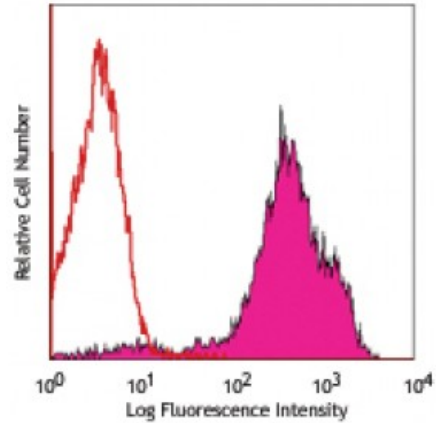


Alexa Fluor® 488 anti-mouse CD69

Catalog # / Size: 1122580 / 100 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 Alexa Fluor® 488 under optimal conditions.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



PMA and Ionomycin stimulated C57BL/6 mouse splenocytes (6 hrs) stained with H1.2F3 Alexa Fluor® 488

Applications:

Applications: Immunofluorescence

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 ≤ 0.25 microg per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 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 activation¹⁻³, immunohistochemistry^{4,5}, and immunoprecipitation¹.

This antibody has been characterized in the literature as containing a λ (λ) 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](#)

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,