

## Anti-Mouse CD69 PE-Cyanine7

**Catalog Number:** 25-0691

**Also Known As:** Very Early Activation Antigen, VEA

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

### Product Information

**Contents:** Anti-Mouse CD69 PE-Cyanine7


 **Catalog Number:** 25-0691

**Clone:** H1.2F3

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Armenian Hamster IgG

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

### Description

The H1.2F3 monoclonal antibody reacts with mouse CD69, also known as very early activation antigen (VEA). CD69 is approximately 35 kDa and is expressed on the surface as a disulfide-linked dimer. While a small subset of lymphocytes in the thymus, spleen and lymph nodes express this antigen, activation of both T and B cells rapidly upregulates the surface expression of CD69, suggesting a role for CD69 in lymphocyte development and activation.

### Applications Reported

The H1.2F3 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This H1.2F3 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocyte suspensions. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

### References

Yokoyama, W. M., F. Koning, et al. (1988). Characterization of a cell surface-expressed disulfide-linked dimer involved in murine T cell activation. *J Immunol* 141(2): 369-76.

### Related Products

25-4888 Armenian Hamster IgG Isotype Control PE-Cyanine7 (eBio299Arm)

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