



## Mouse anti-Human CD49f, PE Conjugated mAb

E16HP0491

**Catalog Number:** E16HP0491-050 , E16HP0491-100

**Amount:** 50 Tests, 100 Tests

**Form of Antibody:** Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide

**Storage/Stability:** Store at 4°C.DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.

**Description:** The 4AeBioGoH3 monoclonal antibody reacts with mouse and human CD49f, also known as integrin alpha 6, very late activation antigen 6 (VLA - 6 alpha chain), and platelet gplc. CD49f is a 120 kD transmembrane protein. CD49f associates with CD29, the integrin beta 1 chain, to form the VLA - 6 complex; CD49f also associates with CD104, the integrin beta 4 chain, to form the alpha 6 beta 4 complex. CD49f is expressed primarily on T cells, monocytes, platelets, epithelial and endothelial cells. CD49f expression has also been found on germinal center B cells. The 4AeBioGoH3 antibody is cross - reactive to integrin alpha 6 on human, mouse and bovine cells. This antibody has also been reported to have functional activity in blocking the binding of integrin alpha 6 to laminin.

**Isotype:** Rat IgG2a

**Clone :** 4AeBioGoH3

**Reactivity:** Human,Not yet tested in other species.

**Applications:** FCM IF

**Experimental Methods:**

- 1.Take 100  $\mu$ l peripheral blood anticoagulated by EDTA and add to the bottom of 5ml tube;
- 2.Add 10  $\mu$ l labeled antibody to the bottom of flow tube mixing with the whole blood, incubate for 20 minutes at room temperature away from light;
- 3.Add 2 ml 1 $\times$ RBC lysis buffer, incubate for 10 minutes away from light after mixing, dissolve red blood cells (recommended: RBC lysing Solution 10 $\times$ ,Cat.: FXP001);
- 4.Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant;
- 5.Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant;
- 6.Add 0.5 ml PBS wash buffer to resuspend the cells and detect by flow cytometry (sample should be determined on the day on the machine and can also be added fixation overnight at 4  $^{\circ}$ C then measured).

[PBS wash buffer: PBS +1% FBS +0.1% NaN<sub>3</sub>; Cat.: FXP005]

**Notices:**

- 1.This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10<sup>6</sup> cells in a 100  $\mu$ l experimental sample (a test);
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing;
4. If the sample can not be timely analysis, please fixed;
5. For research use only, not for diagnostic or therapeutic use.

**References:**

- 1.Sonnenberg A, Daams H, Van der Valk MA, Hilken J, Hilgers J. Development of mouse mammary gland: identification of stages in differentiation of luminal and myoepithelial cells using monoclonal antibodies and polyvalent antiserum against keratin. J Histochem Cytochem. 1986 Aug;34(8):1037 - 46. (GoH3, FC, IH/F PubMed)
- 2.Aumailley M, Timpl R, Sonnenberg A. Antibody to integrin alpha 6 subunit specifically inhibits cell - binding to laminin fragment 8. Exp Cell Res.1990 May;188(1):55 - 60. (GoH3, FA, PubMed)
- 3.Ambrose HE, Wagner SD. Alpha6 - integrin is expressed on germinal centre B cells and modifies growth of a B - cell line. Immunology. 2004 Apr;111(4):400 - 6. (GoH3, FC, PubMed)

**Related products:**

E16HU0491	Mouse Anti-Human CD49f, Purified mAb FCM	IF
E16HF0491	Mouse Anti-Human CD49f, FITC Conjugated mAb	FCM IF

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