



Mouse anti-Human CD31, Purified mAb

E16HU0311

<u>Catalog No.</u>	<u>Size</u>
E16HU0311-100	100 Tests
E16HU0311-050	50 Tests

Description:

COB31 monoclonal antibody reacts with human CD31, a 130-140kD glycoprotein, which is also known as platelet endothelial cell adhesion molecule-1 (PECAM-1). The CD31 antigen is expressed on platelets and endothelial cells at high levels, as well as on T-lymphocyte subsets, monocytes, and granulocytes. The CD31 molecule has also been found in metastatic colon carcinoma. CD31 (PECAM-1) is an adhesion receptor with signaling function that is implicated in vascular wound healing, angiogenesis and transendothelial migration of leukocyte inflammatory responses.

This clone is cross reactive with non-human primate.

Storage Condition:	Store at 4°C.DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.
Clone:	COB31
Isotype:	Mouse IgG1
Reactivity:	Human,Not yet tested in other species.
Storage Buffer:	Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide
Applications:	FCM IF

Experimental Methods:

1. Take 100µl peripheral blood anticoagulated by EDTA and add to the bottom of 5ml tube;
2. Add appropriate amount of antibody to the bottom of flow tube mixing with the whole blood, incubate for 30 minutes at room temperature;
3. Add 2 ml1×RBC lysis buffer, incubate for 10 minutes after mixing, dissolve red blood cells (recommended: RBC lysing Solution 10×,Cat.: E16XP001);
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 appropriate amount of fluorescent-labeled anti-mouse IgGs and incubate for 20 minutes away from light at room temperature.
7. Repeat step 5.
8. 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 °C then measured).

[PBS wash buffer: PBS +1% FBS +0.1% NaN₃; Cat.: E16XP005]

[Cell fixation: 2% formaldehyde solution]

For Research Use Only

Notices:

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. **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;
3. If the sample can not be timely analysis, please fixed;
4. **For research use only, not for diagnostic or therapeutic use.**

References

1. Kishimoto, T. et al. (1998). Leucocyte Typing VI: White Cell Differentiation Antigens. Garland Publishing, Inc. London.
2. Barclay NA et al. (1993) Antigen FactsBook, CD15 Section, Academia Press Inc., San Diego, CA p.135.
3. Lund-Johansen FJ (1992) J Immunol 148:3221.

Related products:

Catalog No.	Product name	Applications
E16HF0311	Mouse Anti-Human CD31, FITC Conjugated mAb	FCM IF
E16HP0311	Mouse Anti-Human CD31, PE Conjugated mAb	FCM IF

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