# Mouse anti-Human CD54, Purified mAb

E16HU054

**Catalog Number:** E16HU054-100 , E16HU054-500

**Amount:** 100 Tests, 500 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:** 4A15.2 reacts withCD54, the 90 kDa intercellular adhesion molecule-1 (ICAM-1). CD54 is expressed at high levels on activated endothelial cells and at moderate levels on activated T lymphocytes, activated B lymphocytes and monocytes. ATL, and some solid tumor cells, also express CD54 rather strongly. CD54 is inducible on epithelial, fibroblastic and endothelial cells and is enhanced by cytokines such as TNF, IL-1 and IFN-g. CD54 acts as a receptor for Rhinovirus or RBCs infected with malarial parasite. CD11a/CD18 or CD11b/CD18 bind to CD54, resulting in an immune reaction and subsequent inflammation.CD54 antibody may be useful for preventing allograft rejection.

**Isotype:** Mouse IgG1

**Clone :** 4A15.2

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

**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.: 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 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 ℃ then measured).
[PBS wash buffer: PBS +1% FBS +0.1% NaN3; Cat.: FXP005]
[Cell fixation: 2% formaldehyde solution]

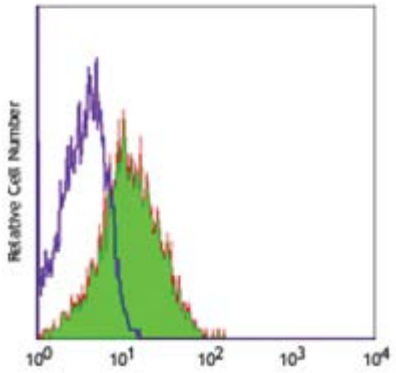
**Notices:**
1.Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2.Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive 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. Knapp, W et al., eds. (1989) Leucocyte Typing IV: White Cell Differentiation Antigens, Oxford University Press, New York.
2. Makgoba, MW et al., (1988) Nature 331: 86-88.
3. Boyd. AW et al. (1989) Blood 73: 1896-1903.

**Related products:**
E16HF054 Mouse Anti-Human CD54，FITC Conjugated mAb FCM IF
E16HP054 Mouse Anti-Human CD54, PE Conjugated mAbFCM IF

**For Research Use Only**

**Profile of peripheral blood lymphocytes analyzed by flow cytometry, FITC labeled goat anti-mouse IgG as secondary antibody staining.**




Human peripheral blood lymphocytes analyzed with Purified CD54 mAb, followed by anti-mouse IgGs-FITC