

Product Data Sheet

PE anti-rat CD54

Catalog # / Size: 202405 / 100 µg

Clone: 1A29

Isotype: Mouse IgG1, κ

Immunogen: HEV-derived cell line Ax

Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography and conjugated with PE

under optimal conditions. The solution is free of unconjugated PE and

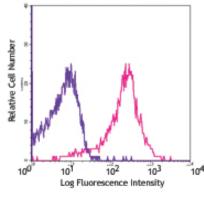
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



LOU rat splenocytes stained with 1A29 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For

immunofluorescent staining, the suggested use of this reagent is ≤0.25 μg per million cells in 100 μl volume. It is

recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry^{1,5} of acetone-fixed frozen

sections and STUF-treated paraffin-embedded sections, immunoprecipitation², *in vitro* and *in vivo* blocking of PMA-induced T cell blast aggregation and adhesion to HEV-derived endothelial cells and purified ICAM-1 protein^{2,3,4}.

Application References: 1. Clark WM, et al. 1995. Mol. Chem. Neuropathol. 26:213. (IHC)

Tamatani T, et al. 1990. Int. Immunol. 2:165. (IP)

Tamatani T, et al. 1991. Eur. J. Immunol. 21:627.
Willenborg DO, et al. 1996. J. Immunol. 157:1973.
McKechnie NM, et al. 2002. IVOS 43:411. (IHC)

Description: CD54 is an 85 kD protein also known as ICAM-1. It is a member of the immunoglobulin superfamily that is expressed on high endothelial venules in lymphoid tissue, peripheral blood monocytes, dendritic cells, granulocytes and thymic

stromal cells. CD54 is weakly expressed on T and B cells, although expression can be increased by activation (especially on endothelial cells). ICAM-1 is an important protein in cell adhesion, inflammation and immune responses. CD54 has been shown to bind to CD11a/CD18 (LFA-1), CD11b/CD18, CD11c/CD18, CD43, fibrinogen, and hyaluronan. The 1A29 antibody has been reported to block T cell aggregation and binding of lymphocytes to

HEV-derived endothelial cells and purified ICAM-1 protein.

1. Tamatani T, et al. 1990. Int. Immunol. 2:165. Antigen References:

2. Tamatani T, et al. 1991. Eur. J. Immunol. 21:627.

3. Turunen JP, et al. 1993. Scand. J. Immunol. 37:282.

Related Products: Product Clone

PE Mouse IgG1, κ Isotype Ctrl (FC) Cell Staining Buffer RBC Lysis Buffer (10X)

Application MOPC-21

FC, ICC, ICFC



