

Product Data Sheet

Purified anti-rat CD54

Catalog # / Size: 202401 / 100 µg

Clone: 1A29

Isotype: Mouse IgG1, κ

Immunogen: HEV-derived cell line Ax

Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - Quality tested IHC, IP - Reported in the literature

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 ≤1.0 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.

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

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

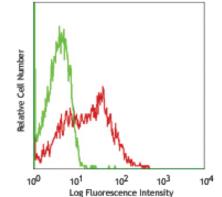
3. Turunen JP, et al. 1993. Scand. J. Immunol. 37:282.

Related Products: Product Clone MOPC-21

FC, ICFC, ICC, IF, IHC, IP, WB FC Purified Mouse IgG1, κ Isotype Ctrl APC Goat anti-mouse IgG (minimal x-reactivity) HRP Goat anti-mouse IgG (minimal x-reactivity) Poly4053

Poly4053 ELISA, IHC, WB

PE Goat anti-mouse IgĞ (minimal x-reactivity) Polv4053



LOU rat splenocytes stained with purified 1A29, followed by anti-mouse IgG FITC



