

TECHNICAL DATA SHEET

APC Anti-Human CD54 (ICAM-1) (15.2)

Catalog Number: 20-0549

PRODUCT INFORMATION

Contents: APC Anti-Human CD54 (ICAM-1) (15.2)

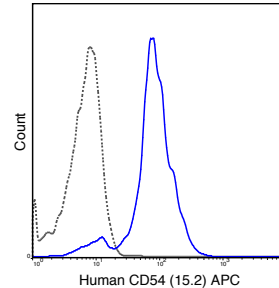
Isotype: Mouse IgG1

Concentration: 5 uL (0.5 ug)/test

Clone: 15.2

Reactivity: Human

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH7.2



Human peripheral blood monocytes were stained with 5 uL (0.5 ug) APC Anti-Human CD54 (20-0549) (solid line) or 0.5 ug APC Mouse IgG1 isotype control.

DESCRIPTION

The 15.2 antibody reacts with human CD54, also known as ICAM-1 (Intercellular Adhesion Molecule 1), a 90-110 kDa cell surface glycoprotein that is inducibly expressed on both immune and endothelial cells. As its name implies, ICAM-1 participates in cell-cell adhesion between leukocytes and endothelial cells, facilitating leukocyte recruitment and transmigration at sites of inflammation. The ligands for ICAM-1 are also expressed on leukocyte and endothelial cells, and include Mac-1, fibrinogen, and a member of the integrin protein family, LFA-1 (CD11a). The 15.2 antibody may be used for analysis of ICAM-1 expression in human cells and tissues, and is reported to be cross-reactive with porcine ICAM-1.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10⁵ to 1x10⁸ cells.

REFERENCES

Sommaggio R, Cohnen A, Watzl C, and Costa C. 2012. *J. Immunol.* 188: 2075-2083. (in vitro blocking - Pig). Avril M, Tripathi AK, Brazier AJ, Andisi C, Janes JH, Soma VL, Sullivan DJ, Bull PC, Stins MF, and Smith JD. 2012. *Proc. Natl. Acad. Sci.* 109: E1782-E1790. (in vitro blocking). Dryden NH, Sperone A, Martin-Almedina S, Hannah RL, Birdsey GM, Khan ST, Layhadi JA et al. 2012. *J. Biol. Chem.* 287: 12331-12342. (Western Blot). Di Lorenzo A, Manes TD, Davalos A, Wright PL, and Sessa WC. 2011. *Blood.* 117: 2284-2295. (in vitro activation/cross-linking). Kim S, and Nadel JA. 2009. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 297: L174-L183. (in vitro blocking, Western Blot). Goto E, Kohrogi H, Hirata N, Tsumori K, Hirosako S, Hamamoto J, Fujii K, Kawano O, and Ando M. 2000. *Am. J. Respir. Cell Mol. Biol.* 22: 405-411. (Immunohistochemistry - frozen tissue).