

TECHNICAL DATA SHEET

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

Catalog Number: 70-0549

PRODUCT INFORMATION

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

Isotype: Mouse IgG1

Concentration: 0.5 mg/mL

Clone: 15.2

Reactivity: Human

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% Na₃N, pH7.2

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 preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

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, Hirotsako S, Hamamoto J, Fujii K, Kawano O, and Ando M. 2000. Am. J. Respir. Cell Mol. Biol. 22: 405-411. (immunohistochemistry - frozen tissue)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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