

TECHNICAL DATA SHEET

# In Vivo Ready™ Anti-Human CD54 (ICAM-1) (15.2)

Catalog Number: 40-0549

## PRODUCT INFORMATION

**Contents:** In Vivo Ready™ Anti-Human CD54 (ICAM-1) (15.2)

**Isotype:** Mouse IgG1

**Concentration:** 2 mg/mL

**Clone:** 15.2

**Reactivity:** Human

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, pH7.2

**Endotoxin Level:** Less than or equal to 0.01 EU/ug, as determined by the LaL assay

## 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, Hirosako 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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