

# ICAM-2 (H-159): sc-7933

## BACKGROUND

Cell adhesion molecules are a family of closely related cell surface glycoproteins involved in cell-cell interactions during growth and are thought to play important, yet separate, roles in embryogenesis and development. The intracellular adhesion molecule-1 (ICAM-1), also referred to as CD54, is an integral membrane protein of the immunoglobulin superfamily and recognizes the  $\beta 2\alpha 1$  and  $\beta 2\alpha M$  integrins. ICAM-2 functions as a ligand for lymphocyte function-associated antigen-1 (LFA-1) and is involved in leukocyte adhesion. ICAM-3 is highly expressed on the surface of human eosinophils, and when bound to ligand may inhibit eosinophil inflammatory responses and survival. ICAM-4, also known as LW glycoprotein, interacts with the integrins  $\alpha L\beta 2$ ,  $\alpha M\beta 2$ ,  $\alpha 4\beta 1$ , the  $\alpha V$  family and  $\alpha I\beta 3$ . Selective binding to different integrins may be relevant to the pathology in a number of red blood cell associated diseases. Lastly, ICAM-5, expressed on telencephalic neurons, binds CD11 a/CD18 and thus may act as an adhesion molecule for leukocyte binding in the central nervous system.

## CHROMOSOMAL LOCATION

Genetic locus: ICAM2 (human) mapping to 17q23.3; Icam2 (mouse) mapping to 11 E1.

## SOURCE

ICAM-2 (H-159) is a rabbit polyclonal antibody raised against amino acids 65-223 mapping within an extracellular domain of ICAM-2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

ICAM-2 (H-159) is recommended for detection of ICAM-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ICAM-2 siRNA (h): sc-35626, ICAM-2 siRNA (m): sc-35627, ICAM-2 shRNA Plasmid (h): sc-35626-SH, ICAM-2 shRNA Plasmid (m): sc-35627-SH, ICAM-2 shRNA (h) Lentiviral Particles: sc-35626-V and ICAM-2 shRNA (m) Lentiviral Particles: sc-35627-V.

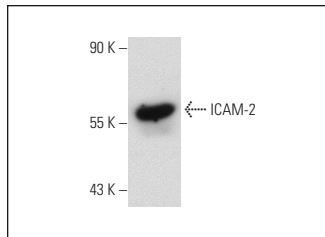
Molecular Weight of ICAM-2: 55-80 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211, HL-60 whole cell lysate: sc-2209 or NAMALWA cell lysate: sc-2234.

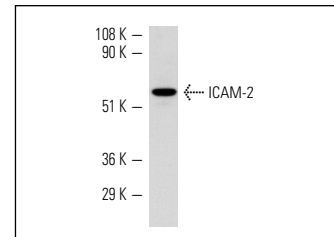
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



ICAM-2 (H-159): sc-7933. Western blot analysis of ICAM-2 expression in HL-60 whole cell lysate.



ICAM-2 (H-159): sc-7933. Western blot analysis of ICAM-2 expression in NAMALWA whole cell lysate.

## SELECT PRODUCT CITATIONS

- Wang, X.M., et al. 2005. Fibroblast activation protein increases apoptosis, cell adhesion, and migration by the LX-2 human stellate cell line. *Hepatology* 42: 935-945.
- Degousee, N., et al. 2011. Group V phospholipase A<sub>2</sub> in bone marrow-derived myeloid cells and bronchial epithelial cells promotes bacterial clearance after *Escherichia coli* pneumonia. *J. Biol. Chem.* 286: 35650-35662.
- Olaku, V., et al. 2011. c-Met recruits ICAM-1 as a coreceptor to compensate for the loss of CD44 in Cd44 null mice. *Mol. Biol. Cell* 22: 2777-2786.
- Xiao, X., et al. 2012. Intercellular adhesion molecule-1 is a regulator of blood-testis barrier function. *J. Cell Sci.* 125: 5677-5689.
- Xiao, X., et al. 2013. Intercellular adhesion molecule-2 is involved in apical ectoplasmic specialization dynamics during spermatogenesis in the rat. *J. Endocrinol.* 216: 73-86.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

**MONOS**  
Satisfaction  
Guaranteed

Try **ICAM-2 (F-5): sc-9987** or **ICAM-2 (CBR-IC2/2): sc-23935**, our highly recommended monoclonal alternatives to ICAM-2 (H-159).