# ICAM-5 (Y-15): sc-22030



The Power to Question

### **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  $\beta2\alpha1$  and  $\beta2\alpha M$  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  $\alpha L\beta2$ ,  $\alpha M\beta2$ ,  $\alpha 4\beta1$ , the  $\alpha V$  family and  $\alpha Ilb\beta3$ , and 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.

### **REFERENCES**

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### CHROMOSOMAL LOCATION

Genetic locus: ICAM5 (human) mapping to 19p13.2; Icam5 (mouse) mapping to 9 A3.

#### **SOURCE**

ICAM-5 (Y-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of ICAM-5 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.

Blocking peptide available for competition studies, sc-22030 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### **APPLICATIONS**

ICAM-5 (Y-15) is recommended for detection of precursor and mature ICAM-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

ICAM-5 (Y-15) is also recommended for detection of precursor and mature ICAM-5 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for ICAM-5 siRNA (h): sc-43034, ICAM-5 siRNA (m): sc-43035, ICAM-5 shRNA Plasmid (h): sc-43034-SH, ICAM-5 shRNA Plasmid (m): sc-43035-SH, ICAM-5 shRNA (h) Lentiviral Particles: sc-43034-V and ICAM-5 shRNA (m) Lentiviral Particles: sc-43035-V.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## **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.

# **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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