

## IL-8RA (C-20): sc-988

### BACKGROUND

IL-8 has been shown to function as a potent neutrophil chemostatic and activating peptide and is an important mediator of inflammatory diseases. Two distinct human IL-8 receptors, designated IL-8RA and IL-8RB, have been characterized. Both are expressed at a high level on neutrophils, and to a lesser extent on monocytes and myeloid cell lines. In addition, the IL-8RA subunit is expressed in T cells such as the Jurkat cell line. Both IL-8Rs are members of the seven-transmembrane domain rhodopsin superfamily of receptors and as such, couple G proteins for signal transduction. The two receptors share 77% amino acid identity. IL-8RA exhibits high affinity binding for IL-8 and low affinity MGSA binding, whereas IL-8RB has high affinity binding for both IL-8 and MGSA.

### REFERENCES

- Holmes, W.E., et al. 1991. Structure and functional expression of a human interleukin-8 receptor. *Science* 253: 1278-1280.
- Murphy, P.M. and Tiffany, H.L. 1991. Cloning of complementary DNA encoding a functional human interleukin-8 receptor. *Science* 253: 1280-1283.
- Koch, A.E., et al. 1992. Interleukin-8 as a macrophage-derived mediator of angiogenesis. *Science* 258: 1789-1801.
- Lee, J., et al. 1992. Characterization of two high affinity human interleukin-8 receptors. *J. Biol. Chem.* 267: 16283-16287.

### CHROMOSOMAL LOCATION

Genetic locus: IL8RA (human) mapping to 2q35.

### SOURCE

IL-8RA (C-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of IL-8RA of human origin.

### PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-988 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

IL-8RA (C-20) is recommended for detection of IL-8RA of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IL-8RA siRNA (h): sc-40026, IL-8RA shRNA Plasmid (h): sc-40026-SH and IL-8RA shRNA (h) Lentiviral Particles: sc-40026-V.

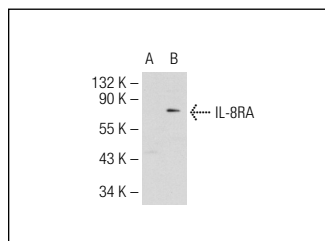
Molecular Weight of IL-8RA: 70 kDa.

Positive Controls: IL-8RA (h3): 293T Lysate: sc-176056.

### STORAGE

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

### DATA



IL-8RA (C-20): sc-988. Western blot analysis of IL-8RA expression in non-transfected: sc-117752 (A) and human IL-8RA transfected: sc-176056 (B) 293T whole cell lysates.

### SELECT PRODUCT CITATIONS

- Richards, B.L., et al. 1997. Coexpression of interleukin-8 receptors in head and neck squamous cell carcinoma. *Am. J. Surg.* 174: 507-512.
- Miller, L.J., et al. 1997. Expression of interleukin-8 receptors on tumor cells and vascular endothelial cells in human breast cancer tissue. *Anticancer Res.* 17: 77-81.
- Galkowska, H., et al. 2006. Chemokines, cytokines, and growth factors in keratinocytes and dermal endothelial cells in the margin of chronic diabetic foot ulcers. *Wound Repair Regen.* 14: 558-565.
- Levashova, Z.B., et al. 2007. ELR<sup>+</sup>-CXC chemokines and their receptors in early metanephric development. *J. Am. Soc. Nephrol.* 18: 2359-2370.
- Rubie, C., et al. 2008. Differential CXC receptor expression in colorectal carcinomas. *Scand. J. Immunol.* 68: 635-644.
- Leung, K.W., et al. 2009. Bacterial endotoxin activates retinal pigment epithelial cells and induces their degeneration through IL-6 and IL-8 autocrine signaling. *Mol. Immunol.* 46: 1374-1386.
- Ray, P.D., et al. 2015. Coordinated regulation of Nrf2 and histone H3 serine 10 phosphorylation in arsenite-activated transcription of the human heme oxygenase-1 gene. *Biochim. Biophys. Acta* 1849: 1277-1288.

### RESEARCH USE

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

**MONOS**  
Satisfaction  
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Try **IL-8RA (B-1): sc-7303**, our highly recommended monoclonal alternative to IL-8RA (C-20).