

IL-8RB (C-19): sc-682

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.

CHROMOSOMAL LOCATION

Genetic locus: IL8RB (human) mapping to 2q35; IL8rb (mouse) mapping to 1 C3.

SOURCE

IL-8RB (C-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of IL-8RB 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-682 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IL-8RB (C-19) is recommended for detection of IL-8RB of human and, to a lesser extent, mouse and rat 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).

IL-8RB (C-19) is also recommended for detection of IL-8RB in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for IL-8RB siRNA (h): sc-40028, IL-8RB siRNA (m): sc-40029, IL-8RB shRNA Plasmid (h): sc-40028-SH, IL-8RB shRNA Plasmid (m): sc-40029-SH, IL-8RB shRNA (h) Lentiviral Particles: sc-40028-V and IL-8RB shRNA (m) Lentiviral Particles: sc-40029-V.

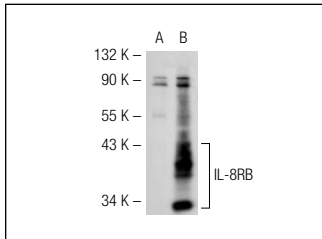
Molecular Weight of IL-8RB: 45 kDa.

Positive Controls: IL-8RB (h): 293T Lysate: sc-115378 or human PBL whole cell lysate.

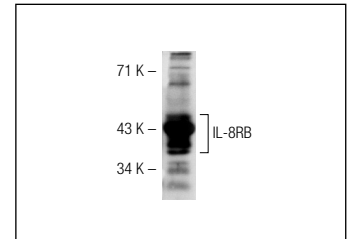
STORAGE

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

DATA



IL-8RB (C-19): sc-682. Western blot analysis of IL-8RB expression in non-transfected: sc-117752 (A) and human IL-8RB transfected: sc-115378 (B) 293T whole cell lysates.



IL-8RB (C-19): sc-682. Western blot analysis of IL-8RB expression in human PBL whole cell lysate.

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.
- Merla, G., et al. 2004. The subcellular localization of the ChoRE-binding protein, encoded by the Williams-Beuren syndrome critical region gene 14, is regulated by 14-3-3. *Hum. Mol. Genet.* 13: 1505-1514.
- Rubie, C., et al. 2008. Differential CXC receptor expression in colorectal carcinomas. *Scand. J. Immunol.* 68: 635-644.
- Yang, J., et al. 2009. Reciprocal regulation of 17β-estradiol, interleukin-6 and interleukin-8 during growth and progression of epithelial ovarian cancer. *Cytokine* 46: 382-391.
- Wu, Y., et al. 2012. A chemokine receptor CXCR2 macromolecular complex regulates neutrophil functions in inflammatory diseases. *J. Biol. Chem.* 287: 5744-5755.
- Wang, S., et al. 2013. CXCR2 macromolecular complex in pancreatic cancer: a potential therapeutic target in tumor growth. *Transl. Oncol.* 6: 216-225.

RESEARCH USE

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


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Try **IL-8RB (E-2): sc-7304** or **IL-8RB (5E8): sc-32780**, our highly recommended monoclonal alternatives to IL-8RB (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **IL-8RB (E-2): sc-7304**.