

IL-8RB (E-2): sc-7304

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.

CHROMOSOMAL LOCATION

Genetic locus: IL8RB (human) mapping to 2q35.

SOURCE

IL-8RB (E-2) is a mouse monoclonal antibody raised against amino acids 1-19 mapping at the N-terminus of IL-8RB of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IL-8RB (E-2) is available conjugated to agarose (sc-7304 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-7304 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-7304 PE), fluorescein (sc-7304 FITC), Alexa Fluor[®] 488 (sc-7304 AF488), Alexa Fluor[®] 546 (sc-7304 AF546), Alexa Fluor[®] 594 (sc-7304 AF594) or Alexa Fluor[®] 647 (sc-7304 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-7304 AF680) or Alexa Fluor[®] 790 (sc-7304 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

IL-8RB (E-2) is recommended for detection of IL-8RB of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

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

Molecular Weight of IL-8RB: 45 kDa.

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

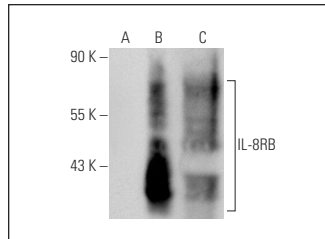
STORAGE

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

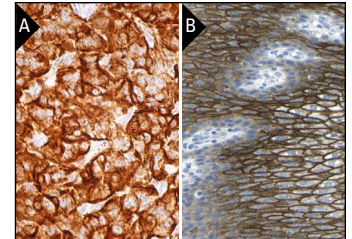
RESEARCH USE

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

DATA



IL-8RB (E-2): sc-7304. Western blot analysis of IL-8RB expression in non-transfected 293T: sc-117752 (A), human IL-8RB transfected 293T: sc-115378 (B) and human PBL (C) whole cell lysates.



IL-8RB (E-2): sc-7304. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing membrane and cytoplasmic staining of glandular cells (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing membrane staining of squamous epithelial cells. Kindly provided by The Swedish Human Protein Atlas (HPA) program (B).

SELECT PRODUCT CITATIONS

- Fan, G.H., et al. 2001. Phosphorylation-independent association of CXCR2 with the protein phosphatase 2A core enzyme. *J. Biol. Chem.* 276: 16960-16968.
- Bierie, B., et al. 2009. Abrogation of TGF-β signaling enhances chemokine production and correlates with prognosis in human breast cancer. *J. Clin. Invest.* 119: 1571-1582.
- Jiang, W.G., et al. 2012. Influence of interleukin-8 (IL-8) and IL-8 receptors on the migration of human keratinocytes, the role of PLC-γ and potential clinical implications. *Exp. Ther. Med.* 402: 231-236.
- Wu, Y., et al. 2012. A chemokine receptor CXCR2 macromolecular complex regulates neutrophil functions in inflammatory diseases. *J. Biol. Chem.* 287: 5744-5755.
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- Renga, B., et al. 2014. The HIV matrix protein p17 promotes the activation of human hepatic stellate cells through interactions with CXCR2 and Syndecan-2. *PLoS ONE* 9: e94798.
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PROTOCOLS

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

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