**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 IgG, 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(Paraffin) 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(Paraffin) 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**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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

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