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 MGS binding, whereas IL-8RB has high affinity binding for both IL-8 and MGS.

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; and to either phycoerythrin (sc-7304 PE), fluorescein (sc-7304 FITC), Alexa Fluor® 488 (sc-7304 AF488) or Alexa Fluor® 647 (sc-7304 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

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 10^6 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): 23T 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.