

IL-8 (C-11): sc-376750

BACKGROUND

Interleukin-8, or IL-8, the prototypic member of the C-X-C, or α , family of chemokines, is a chemoattractant cytokine involved in the chemotaxis and activation of neutrophils. IL-8 expression has been correlated to a large number of chronic inflammatory diseases, including inflammatory bowel disease (IBD) and atherosclerosis. IL-8 is cleaved from a 99 amino acid precursor to a 72 amino acid, nonglycosylated, biologically active protein. IL-8 monomers and dimers exhibit a dynamic equilibrium both free in solution and in cell surface-bound forms and thus regulate chemotaxis and receptor signaling. Research has shown that IL-8 dimerization functions as a negative regulator for IL-8 receptor function. Two IL-8 receptors, designated IL-8RA and IL-8RB, have been described and share 77% sequence identity. Both are seven-transmembrane domain proteins (7TMD), similar to the G protein-coupled receptors and, in addition to IL-8, serve as receptors for other members of the α and β chemokine families.

CHROMOSOMAL LOCATION

Genetic locus: CXCL8 (human) mapping to 4q13.3.

SOURCE

IL-8 (C-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 71-99 at the C-terminus of IL-8 of human origin.

PRODUCT

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

IL-8 (C-11) is available conjugated to agarose (sc-376750 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376750 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376750 PE), fluorescein (sc-376750 FITC), Alexa Fluor® 488 (sc-376750 AF488), Alexa Fluor® 546 (sc-376750 AF546), Alexa Fluor® 594 (sc-376750 AF594) or Alexa Fluor® 647 (sc-376750 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376750 AF680) or Alexa Fluor® 790 (sc-376750 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376750 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

IL-8 (C-11) is recommended for detection of IL-8 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

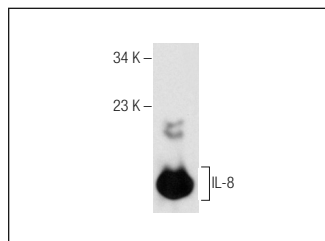
Suitable for use as control antibody for IL-8 siRNA (h): sc-39631, IL-8 shRNA Plasmid (h): sc-39631-SH and IL-8 shRNA (h) Lentiviral Particles: sc-39631-V.

Molecular Weight of IL-8: 8 kDa.

STORAGE

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

DATA



IL-8 (C-11): sc-376750. Western blot analysis of human recombinant IL-8.

SELECT PRODUCT CITATIONS

- Zhou, W., et al. 2014. MiR-126-5p regulates osteolysis formation and stromal cell proliferation in giant cell tumor through inhibition of PTHrP. *Bone* 66: 267-276.
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- Kutlu, Z., et al. 2020. Effects of umbelliferone isolated from the *Ferulago pauciradiata* Boiss. & Heldr. Plant on cecal ligation and puncture-induced sepsis model in rats. *Biomed. Pharmacother.* 127: 110206.
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- Zhou, D.Y., et al. 2020. In silico prediction and validation of potential therapeutic genes in pancreatic β -cells associated with type 2 diabetes. *Exp. Ther. Med.* 20: 60.
- Pinto, D.O., et al. 2021. Extracellular vesicles from HTLV-1 infected cells modulate target cells and viral spread. *Retrovirology* 18: 6.
- Han, B., et al. 2021. Inhibition of autophagy promotes human RSV NS1-induced inflammation and apoptosis *in vitro*. *Exp. Ther. Med.* 22: 1054.
- Mayca Pozo, F., et al. 2021. MYO10 drives genomic instability and inflammation in cancer. *Sci. Adv.* 7: eabg6908.
- Khatiwada, S., et al. 2021. The novel ORFV protein ORFV113 activates LPA-p38 signaling. *PLoS Pathog.* 17: e1009971.
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RESEARCH USE

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