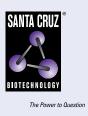
SANTA CRUZ BIOTECHNOLOGY, INC.

CCL14 (E-12): sc-376152



BACKGROUND

Chemokines are members of a superfamily of inducible, secreted, pro-inflammatory cytokines. Members of the chemokine family exhibit 20 to 50% homology in their predicted amino acid sequences and are divided into four subfamilies. CCL14 belongs to the intercrine β (chemokine C-C) family. CCL14 has weak activities on human monocytes and acts via receptors that also recognize MIP-1 α . CCL14 also enhances the proliferation of CD34 myeloid progenitor cells. The processed form of CCL14, designated HCC-1(9-74), is a chemotactic factor that attracts monocytes, eosinophils and T cells and is a ligand for CCR1, CCR3 and CCR5. Various membrane-associated and soluble proteases selectively cleave specific chemokines. Precursor plasma chemokines (CXCL7, CCL14) need to be proteolytically processed to obtain receptor affinity.

REFERENCES

- Munch, J., et al. 2002. Hemofiltrate CC chemokine 1[9-74] causes effective internalization of CCR5 and is a potent inhibitor of R5-tropic human immuno-deficiency virus type 1 strains in primary T cells and macrophages. Antimicrob. Agents Chemother. 46: 982-990.
- Forssmann, U., et al. 2004. n-Nonanoyl-CC chemokine ligand 14, a potent CC chemokine ligand 14 analogue that prevents the recruitment of eosinophils in allergic airway inflammation. J. Immunol. 173: 3456-3466.
- Shen, Y., et al. 2004. Distinct gene expression profiles in different B-cell compartments in human peripheral lymphoid organs. BMC Immunol. 5: 20.
- 4. Van Damme, J., et al. 2004. Chemokine-protease interactions in cancer. Semin. Cancer Biol. 14: 201-208.

CHROMOSOMAL LOCATION

Genetic locus: CCL14 (human) mapping to 17q12.

SOURCE

CCL14 (E-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 65-93 at the C-terminus of CCL14 of human origin.

PRODUCT

Each vial contains 200 $\mu g\, lg G_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CCL14 (E-12) is available conjugated to agarose (sc-376152 AC), 500 μg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-376152 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376152 PE), fluorescein (sc-376152 FITC), Alexa Fluor[®] 488 (sc-376152 AF488), Alexa Fluor[®] 546 (sc-376152 AF546), Alexa Fluor[®] 594 (sc-376152 AF594) or Alexa Fluor[®] 647 (sc-376152 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-376152 AF680) or Alexa Fluor[®] 790 (sc-376152 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376152 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

CCL14 (E-12) is recommended for detection of CCL14 of human origin by Western Blotting (starting dilution 1:100, 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CCL14 siRNA (h): sc-45580, CCL14 shRNA Plasmid (h): sc-45580-SH and CCL14 shRNA (h) Lentiviral Particles: sc-45580-V.

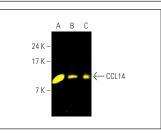
Molecular Weight of CCL14: 9 kDa.

Positive Controls: HUV-EC-C whole cell lysate: sc-364180, human bladder extract: sc-363751 or U266 whole cell lysate: sc-364800.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



CCL14 (E-12) Alexa Fluor[®] 488: sc-376152 AF488. Direct fluorescent western blot analysis of CCL14 expression in HUV-EC-C (**A**) and U266 (**B**) whole cell lysates and human bladder tissue extract (**C**). Blocked with UltraCruz[®] Blocking Reagent: sc-516214. CCL14 (E-12): sc-376152. Immunoperoxidase staining of formalin fixed, paraffin-embedded human urinary bladder tissue showing cytoplasmic staining of urothelial cells.

STORAGE

Store at 4° C, **D0 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.