SANTA CRUZ BIOTECHNOLOGY, INC.

CCL27 (49-78): sc-73786

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Cutaneous T cell-attracting chemokine, CCL27 (also designated CTACK, ILC, ALP and skinkine) is a member of the chemokine superfamily and the subfamily of β or C-C chemokines that binds chemokine receptor CCR10 (GPR-2). Chemokines are a superfamily of small secreted proteins that attract their targets by interacting with G protein-coupled receptors expressed on the migrating cell. CCL27 and CCR10 are involved in skin homeostasis and inflammatory response. CCL27 is found in human keratinocytes and mouse epidermis; CCR10 is expressed by melanocytes, dermal fibroblasts and dermal microvascular endothelial cells and in T cells, as well as in skin-derived Langerhans cells. CCL27 is involved in the preferential migration and recruitment of cutaneous lymphocyte-associated antigen CLA^+ memory lymphocytes.

REFERENCES

1. Baggiolini, M. 1998. Chemokines and leukocyte traffic. Nature 392: 565-568.
2. Morales, J., et al. 1999. CTACK, a skin-associated chemokine that preferentially attracts skin-homing memory T cells. Proc. Natl. Acad. Sci. USA 96: 14470-14475.
3. Ishikawa-Mochizuki, I., et al. 1999. Molecular cloning of a novel C-C chemokine, interleukin-11 receptor α-locus chemokine (ILC), which is located on chromosome 9p13 and a potential homologue of a C-C chemokine encoded by molluscum contagiosum virus. FEBS Lett. 460: 544-548.
4. Zaballos, A., et al. 1999. CCL27, the human homologue of murine ALP chemokine. Submitted to EMBL/GenBank/DDBJ database.
5. Hromas, R., et al. 1999. Isolation of ALP, a novel divergent murine C-C chemokine with a unique carboxy-terminal extension. Biochem. Biophys. Res. Commun. 258: 737-740.
6. Zlotnik, A., et al. 1999. Recent advances in chemokines and chemokine receptors. Crit. Rev. Immunol. 19: 1-47.
7. Homey, B., et al. 2000. Cutting edge: the orphan chemokine receptor G protein-coupled receptor-2 (GPR-2, CCR10) binds the skin-associated chemokine CCL27. J. Immunol. 164: 3465-3470.

CHROMOSOMAL LOCATION

Genetic locus: CCL27 (human) mapping to 9p13.3.

SOURCE

CCL27 (49-78) is a mouse monoclonal antibody raised against full length recombinant CCL27 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

STORAGE

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

APPLICATIONS

CCL27 (49-78) is recommended for detection of CCL27 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 CCL27 siRNA (h): sc-39346, CCL27 shRNA Plasmid (h): sc-39346-SH and CCL27 shRNA (h) Lentiviral Particles: sc-39346-V.

Molecular Weight of CCL27: 10 kDa.

RESEARCH USE

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

PROTOCOLS

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