

## 6CKine (h): 293T Lysate: sc-114244

### BACKGROUND

6CKine (also designated Exodus-2, SLC or TCA4) is a member of the chemokine superfamily and the subfamily of CC chemokines that has an aspartate-cysteine-cysteine-leucine motif near its amino-terminus. 6CKine has a unique 36 or 37 (murine and human, respectively) amino acid carboxyl-terminal extension that contains 6 conserved cysteines. 6CKine stimulates the chemotaxis of T lymphocytes and the recruitment and proliferation of activated NK cells. Expression of human 6CKine is restricted to lymph node, spleen and appendix, while murine 6CKine has a broader tissue distribution in spleen and lung. 6CKine is involved in inhibiting hematopoiesis both *in vitro* and *in vivo*. The chemokine family is composed of structurally related proteins that mediate all leukocyte migration. Chemokines stimulate leukocyte infiltration and therefore play crucial roles in many diseases in which there is inflammatory tissue destruction.

### REFERENCES

1. Baggiolini, M. and Dahinden, C.A. 1994. CC chemokines in allergic inflammation. *Immunol. Today* 15: 127-133.
2. Hosaka, S., Akahoshi, T., Wada, C. and Kondo, H. 1994. Expression of the chemokine superfamily in rheumatoid arthritis. *Clin. Exp. Immunol.* 97: 451-457.
3. Kukielka, G.L., Youker, K.A., Michael, L.H., Kumar, A.G., Ballantyne, C.M., Smith, C.W. and Entman, M.L. 1995. Role of early reperfusion in the induction of adhesion molecules and cytokines in previously ischemic myocardium. *Mol. Cell. Biochem.* 147: 5-12.
4. Furie, M.B. and Randolph, G.J. 1995. Chemokines and tissue injury. *Am. J. Pathol.* 146: 1287-1301.
5. Hedrick, J.A. and Zlotnik, A. 1997. Identification and characterization of a novel  $\beta$  chemokine containing six conserved cysteines. *J. Immunol.* 159: 1589-1593.
6. Hromas, R., Kim, C., Klemsz, M., Krathwohl, M., Fife, K., Cooper, S., Schnizlein-Bick, C. and Broxmeyer, H.E. 1997. Isolation and characterization of Exodus-2, a novel C-C chemokine with a unique 37-amino acid carboxyl-terminal extension. *J. Immunol.* 159: 2554-2558.
7. Robertson, M.J., Williams, B.T., Christopherson, K., 2nd., Brahma, Z. and Hromas, R. 2000. Regulation of human natural killer cell migration and proliferation by the exodus subfamily of CC chemokines. *Cell. Immunol.* 199: 8-14.
8. Hromas, R., Cripe, L., Hangoc, G., Cooper, S. and Broxmeyer, H.E. 2000. The exodus subfamily of CC chemokines inhibits the proliferation of chronic myelogenous leukemia progenitors. *Blood* 95: 1506-1508.

### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

### CHROMOSOMAL LOCATION

Genetic locus: CCL21 (human) mapping to 9p13.3.

### PRODUCT

6CKine (h): 293T Lysate represents a lysate of human 6CKine transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

### APPLICATIONS

6CKine (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive 6CKine antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

### RESEARCH USE

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