

## 6CKine (M-16): sc-5811

### 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 six 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. Kukiela, 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., Schnitzlein-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.

### CHROMOSOMAL LOCATION

Genetic locus: CCL21 (human) mapping to 9p13; Ccl21b (mouse) mapping to 4 A5.

### SOURCE

6CKine (M-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of 6CKine of mouse origin.

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-5811 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

6CKine (M-16) is recommended for detection of 6CKine of mouse and rat 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for 6CKine siRNA (m): sc-39342, 6CKine shRNA Plasmid (m): sc-39342-SH and 6CKine shRNA (m) Lentiviral Particles: sc-39342-V.

Molecular Weight of 6CKine: 12 kDa.

Positive Controls: mouse thymus extract: sc-2406 or mouse spleen extract: sc-2391.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941.

### 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.

### PROTOCOLS

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