SANTA CRUZ BIOTECHNOLOGY, INC.

6CKine (C-15): sc-5808

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 containins 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., et al. 1994. CC chemokines in allergic inflammation. Immunol. Today 15: 127-133.
2. Hosaka, S., et al. 1994. Expression of the chemokine superfamily in rheumatoid arthritis. Clin. Exp. Immunol. 97: 451-457.

CHROMOSOMAL LOCATION

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

SOURCE

6CKine (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of 6CKine of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-5808 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

6CKine (C-15) is recommended for detection of 6CKine of human origin by Western Blotting (starting dilution 1:200, 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).

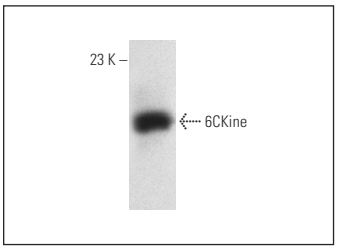
Suitable for use as control antibody for 6CKine siRNA (h): sc-39341, 6CKine shRNA Plasmid (h): sc-39341-SH and 6CKine shRNA (h) Lentiviral Particles: sc-39341-V.

Molecular Weight of 6CKine: 12 kDa.

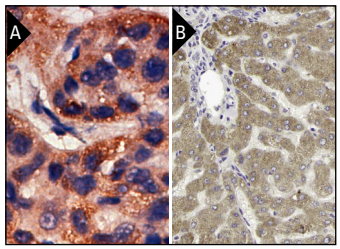
RECOMMENDED SECONDARY REAGENTS

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™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 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™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



6CKine (C-15): sc-5808. Western blot analysis of human recombinant 6CKine.



6CKine (C-15): sc-5808. Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tumor showing cytoplasmic and extracellular localization (**A**) and cytoplasmic staining of hepatocytes (**B**). Kindly provided by The Swedish Human Protein Atlas (HPA) program.

SELECT PRODUCT CITATIONS

1. Nakayama, T., et al. 2003. Fluctuation of 6CKine expression in human endometrium during the menstrual cycle. Fertil. Steril. 80: 1461-1465.
2. Eberhard, Y., et al. 2004. Upregulation of the chemokine CCL21 in the skin of subjects exposed to irritants. BMC Immunol. 5: 7.
3. Peloggia, A., et al. 2006. Endometrial chemokines, uterine natural killer cells and mast cells in long-term users of the levonorgestrel-releasing intrauterine system. Hum. Reprod. 21: 1129-1134.
4. Oliveira-Neto, H.H., et al. 2013. The expression of chemokines CCL19, CCL21 and their receptor CCR7 in oral squamous cell carcinoma and its relevance to cervical lymph node metastasis. Tumour Biol. 34: 65-70.

STORAGE

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

PROTOCOLS

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