SANTA CRUZ BIOTECHNOLOGY, INC.

TECK (K-16): sc-12277

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Chemokines are likely to play an important role in regulating the trafficking of developing T cells within the thymus. Chemokine CC thymus expressed chemokine (TECK, also designated chemokine ligand 25 (CCL25), small inducible cytokine A25, chemokine beta-15 or CK beta-15) is expressed predominantly in thymic dendritic cells, thymic epithelial cells, and in the small intestine. TECK, a CCR9 ligand, has suppressive activity against immature subsets of myeloid progenitors which have been stimulated to proliferate by multiple growth factors. TECK delivers signals through CCR9, which is important for the navigation of developing thymocytes. Bone marrow pre-pro-B cells and cells capable of generating pro-B colonies in the presence of interleukin 7 and Flt3 ligand migrate to TECK, a response lost in later stages of B cell development.

REFERENCES

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2. Broxmeyer, H.E., et al. 1999. Effects of CC, CXC, C, and CX3C chemokines on proliferation of myeloid progenitor cells, and insights into SDF-1-induced chemotaxis of progenitors. Ann. NY Acad. Sci. 872: 142-162.
3. Gosling, J., et al. 2000. Cutting edge: identification of a novel chemokine receptor that binds dendritic cell- and T cell-active chemokines including ELC, SLC, and TECK. J. Immunol. 164: 2851-2856.
4. Wurbel, M.A., et al. 2000. The chemokine TECK is expressed by thymic and intestinal epithelial cells and attracts double- and single-positive thymocytes expressing the TECK receptor CCR9. Eur. J. Immunol. 30: 262-271.
5. Norment, A.M., et al. 2000. Murine CCR9, a chemokine receptor for thymus-expressed chemokine that is up-regulated following pre-TCR signaling. J. Immunol. 164: 639-648.
6. Yu, C.R., et al. 2000. CCR9A and CCR9B: two receptors for the chemokine CCL25/TECK/Ck beta-15 that differ in their sensitivities to ligand. J. Immunol. 164: 1293-1305.
7. Bowman, E.P., et al. 2000. Developmental switches in chemokine response profiles during B cell differentiation and maturation. J. Exp. Med.191: 1303-1318.

CHROMOSOMAL LOCATION

Genetic locus: CCL25 (human) mapping to 19p13.2; Ccl25 (mouse) mapping to 8 A1.1.

SOURCE

TECK (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TECK of human origin.

RESEARCH USE

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

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-12277 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TECK (K-16) is recommended for detection of TECK 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TECK siRNA (h): sc-39371, TECK shRNA Plasmid (h): sc-39371-SH and TECK shRNA (h) Lentiviral Particles: sc-39371-V.

Molecular Weight of TECK: 17 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) 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.

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.