SANTA CRUZ BIOTECHNOLOGY, INC.

WECHE (I-20): sc-11456

BACKGROUND

WECHE (for weird chemokine, also known as Lungkine or small inducible cytokine B15 precursor) is a endothelial-associated chemokine. WECHE was originally isolated from aorta-gonad-mesonephros (AGM)-derived endothelial cell lines. WECHE contains an ELR sequence after the N-terminal signal sequence like other C-X-C chemokines, but WECHE contains an unique extended C-terminus. WECHE is selectively expressed in lung bronchoepithelial cells and in DAS (dorsal aorta stroma) 104-4 and DAS 104-8 cell lines. WECHE inhibits erythroid differentiation and progenitor cell expansion. WECHE is secreted into the airway spaces and induces the *in vitro* and *in vivo* migration of neutrophils, and may be involved in lung-specific neutrophil trafficking and lung development .

REFERENCES

1. Dzierzak, E., et al. 1995. Mouse embryonic hematopoiesis. Trends Genet. 11: 359–366.
2. Zon, L. 1995. Developmental biology of hematopoiesis. Blood 86: 2876–2891.
3. Peault, B. 1996. Hematopoietic stem cell emergence in embryonic life: developmental hematology revisited. J. Hematother. 5: 513–520.
4. Medvinsky, A., et al. 1996. Definitive hematopoiesis is autonomously initiated in the AGM region. Cell 86: 897–906.
5. Ohneda, O., et al. 1998. Hematopoietic stem cell maintenance and differentiation are supported by embryonic aorta-gonad-mesonephros region-derived endothelium. Blood 92: 908–919.
6. Rossi, D.L., et al. 1999. Lungkine, a novel C-X-C chemokine, specifically expressed by lung bronchoepithelial cells. J. Immunol. 162: 5490-5497.
7. Ohneda, O., et al. 2000. WECHE: a novel hematopoietic regulatory factor. Immunity 12: 141-150.

CHROMOSOMAL LOCATION

Genetic locus: CXCL15 (human); Cxcl15 (mouse) mapping to 5 E1.

SOURCE

WECHE (I-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of WECHE of mouse 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-11456 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

WECHE (I-20) is recommended for detection of WECHE of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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.

RESEARCH USE

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

PROTOCOLS

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