

# WECHE (N-16): sc-11454

## BACKGROUND

WECHE (for weird chemokine, also known as lungkine or small inducible cytokine B15 precursor) is an 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 CXC chemokines, but WECHE contains a 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

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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. and Dzierzak, E. 1996. Definitive hematopoiesis is autonomously initiated in the AGM region. *Cell* 86: 897-906.
5. Ohneda, O., Fennie, C., Zheng, Z., Donahue, C., La, H., Villacorta, R., Cairns, B. and Lasky, L.A. 1998. Hematopoietic stem cell maintenance and differentiation are supported by embryonic aorta-gonad-mesonephros region-derived endothelium. *Blood* 92: 908-919.
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## CHROMOSOMAL LOCATION

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

## SOURCE

WECHE (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-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-11454 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

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

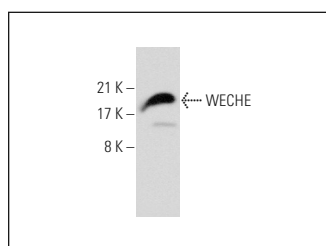
Suitable for use as control antibody for WECHE siRNA (m): sc-39373, WECHE shRNA Plasmid (m): sc-39373-SH and WECHE shRNA (m) Lentiviral Particles: sc-39373-V.

Positive Controls: mouse liver extract: sc-2256 or NIH/3T3 whole cell lysate: sc-2210.

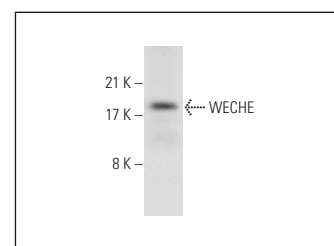
## RECOMMENDED SECONDARY REAGENTS

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.

## DATA



WECHE (N-16): sc-11454. Western blot analysis of WECHE expression in NIH/3T3 whole cell lysate.



WECHE (N-16): sc-11454. Western blot analysis of WECHE expression in mouse liver tissue extract.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.