

EGFL7 (M-135): sc-66875



The Power to Question

BACKGROUND

Epidermal growth factor (EGF) repeat-containing proteins constitute an expanding family of proteins that are involved in several cellular activities, such as blood coagulation, fibrinolysis, cell adhesion and neural and vertebrate development. A human EGF repeat superfamily member that maps to human chromosome X, EGFL6 encodes a predicted signal peptide, suggesting that it is secreted. EGFL6 is expressed in brain and lung tumors and fetal tissues, but is generally absent from normal adult tissues. EGFL7 is a secreted protein that regulates vascular tubulogenesis *in vivo*. *In vitro*, EGFL7 inhibits platelet-derived growth factor induced smooth muscle cell migration and promotes adhesion of endothelial cells to the substrate. EGFL7 is expressed specifically by endothelial cells of the heart, lung and kidney.

REFERENCES

1. Soncin, F., et al. 2003. VE-statin, an endothelial repressor of smooth muscle cell migration. *EMBO J.* 22: 5700-5711.
2. Fitch, M.J., et al. 2004. EGFL7, a novel epidermal growth factor-domain gene expressed in endothelial cells. *Dev. Dyn.* 230: 316-324.
3. Parker, L.H., et al. 2004. The endothelial-cell-derived secreted factor EGFL7 regulates vascular tube formation. *Nature* 428: 754-758.
4. Campagnolo, L., et al. 2005. EGFL7 is a chemoattractant for endothelial cells and is upregulated in angiogenesis and arterial injury. *Am. J. Pathol.* 167: 275-284.
5. Caetano, B., et al. 2005. Expression and purification of recombinant vascular endothelial-statin. *Protein Expr. Purif.* 46: 136-142.
6. Jiang, W.D., et al. 2006. siRNA inhibits EGFL7 expression in human endothelial cell line HUVEC. *Zhonghua Xin Xue Guan Bing Za Zhi* 34: 643-646.
7. Schmidt, M., et al. EGFL7 regulates the collective migration of endothelial cells by restricting their spatial distribution. *Development* 134: 2913-2923.

CHROMOSOMAL LOCATION

Genetic locus: EGFL7 (human) mapping to 9q34.3; Egfl7 (mouse) mapping to 2 A3.

SOURCE

EGFL7 (M-135) is a rabbit polyclonal antibody raised against amino acids 141-275 mapping at the C-terminus of EGFL7 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.

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.

APPLICATIONS

EGFL7 (M-135) is recommended for detection of EGFL7 of mouse, rat and, to a lesser extent, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

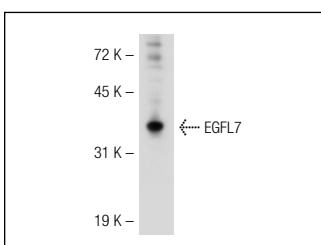
Suitable for use as control antibody for EGFL7 siRNA (h): sc-45471, EGFL7 siRNA (m): sc-45472, EGFL7 shRNA Plasmid (h): sc-45471-SH, EGFL7 shRNA Plasmid (m): sc-45472-SH, EGFL7 shRNA (h) Lentiviral Particles: sc-45471-V and EGFL7 shRNA (m) Lentiviral Particles: sc-45472-V.

Molecular Weight of EGFL7: 30 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



EGFL7 (M-135): sc-66875. Western blot analysis of EGFL7 expression in ECV304 whole cell lysate.

RESEARCH USE

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

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Try **EGFL7 (B-1): sc-373898**, our highly recommended monoclonal alternative to EGFL7 (M-135).