

EGFL7 (B-1): sc-373898

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.

CHROMOSOMAL LOCATION

Genetic locus: EGFL7 (human) mapping to 9q34.3.

SOURCE

EGFL7 (B-1) is a mouse monoclonal antibody raised against amino acids 184-273 mapping at the C-terminus of EGFL7 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

EGFL7 (B-1) is available conjugated to agarose (sc-373898 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373898 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373898 PE), fluorescein (sc-373898 FITC), Alexa Fluor® 488 (sc-373898 AF488), Alexa Fluor® 546 (sc-373898 AF546), Alexa Fluor® 594 (sc-373898 AF594) or Alexa Fluor® 647 (sc-373898 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-373898 AF680) or Alexa Fluor® 790 (sc-373898 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE

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

APPLICATIONS

EGFL7 (B-1) is recommended for detection of EGFL7 of human origin by Western Blotting (starting dilution 1:100, 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 shRNA Plasmid (h): sc-45471-SH and EGFL7 shRNA (h) Lentiviral Particles: sc-45471-V.

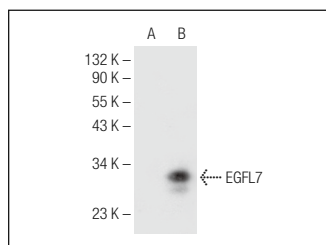
Molecular Weight of EGFL7: 30 kDa.

Positive Controls: EGFL7 (h): 293 Lysate: sc-113007 or ECV304 cell lysate: sc-2269.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



EGFL7 (B-1): sc-373898. Western blot analysis of EGFL7 expression in non-transfected: sc-110760 (A) and human EGFL7 transfected: sc-113007 (B) 293 whole cell lysates.

SELECT PRODUCT CITATIONS

1. Yu, H., et al. 2017. Transcription factor NFAT5 promotes glioblastoma cell-driven angiogenesis via SBF2-AS1/miR-338-3p-mediated EGFL7 expression change. *Front. Mol. Neurosci.* 10: 301.
2. Thakker, S., et al. 2017. KSHV LANA upregulates the expression of epidermal growth factor like domain 7 to promote angiogenesis. *Oncotarget* 9: 1210-1228.
3. Wang, F.Y., et al. 2020. Proteomics identifies EGF-like domain multiple 7 as a potential therapeutic target for epidermal growth factor receptor-positive glioma. *Cancer Commun.* 40: 518-530.

RESEARCH USE

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

PROTOCOLS

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

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA