



Anti-mouse VE-Statn/EGFL7

20150507BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	103-PA14S
Size:	100 µg
Lot. No.:	According to product label
Country of origin:	Germany

Preparation: Produced from sera of rabbits immunized with highly pure recombinant mouse EGFL7 (Glu181-Leu275; C terminus) derived from E. coli.

Target Background

Synonyms:	Epidermal growth factor-like protein 7, Vascular endothelial statin
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EGFL7 is an ~ 30 kDa secreted protein that contain an Emilin-like (EMI) domain (a multimerization motif), and 2 epidermal growth factor (EGF) domains, one of which binds calcium. Based on these domains, it has been hypothesized that EGFL7 may self-assemble like extracellular matrix (ECM) proteins and, thus, could incorporate into ECM. EGFL7 has been reported to stimulate cell adhesion as well as motility in a manner similar to ECM proteins. EGFL7 has been shown to be primarily expressed by developing ECs but also by primordial germ cells and some central nervous system neurons. Interestingly, EGFL7 expression markedly decreases in ECs in postnatal life, but can be strongly up-regulated after various tissue injuries that lead to increased angiogenic responses.

References

1. Nichol D and Stuhlmann H, Blood 119:1345, 2012; 2. Delfortrie S et al, Cancer Res 71:7176, 1011; 3. Badiwala MVet al, Circulation 124:S197, 2011; 4. Davis GE, Blood 23:116:5791, 2010; 5. Nichol D et al, Blood 116:6133, 2010; 6. Le Bras A et a, PLoS One 5:e12156, 2010; 7. Durrans A et al, J Angiogenes Res 2:4, 2010; 8. Bicker F et al and Schmidt MH; Cell Cycle 9:1263, 2010; 9. Schmidt MH et al, Nat Cell Biol 11:873, 2009; 10. Schmidt M et al, Development 134:2913, 2007; 11. Campagnolo L et al, Am J Pathol 167:275, 2005; 12. Fitch MJ et al, Dev Dyn 230:316, 2004; 13. Parker LH et al, Nature 428:754, 2004; 14. Soncin F et al, EMBO J 22:5700, 2003

Database References Antigen

Protein RefSeq:	NP_942018.2
Uniprot ID:	Q9QXT5
mRNA RefSeq:	NM_198725.2

Product Specifications

Species reactivity	mouse
Clone/Ab feature	Rabbit IgG
Cross reactivity	ND
Host	rabbit
Clonality	polyclonal
Purification	Protein A purified
Immunogen	Recombinant mouse EGFL-7 (C-terminus)
Formulation	lyophilized
Buffer	PBS

Stability: The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Western Blot:	Use at 1-5 µg/ml
IF/IHC:	ICC: Use 10 µg/ml
Others	IP: Use 1 µg/ml

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Handling/Applications

Experiments were performed by Dr. Frank Bicker from the research group of Prof. Dr. Mirko HH Schmidt, Institute of Microscopic Anatomy and Neurobiology, University Medical Center of Johannes Gutenberg University Mainz, Germany.

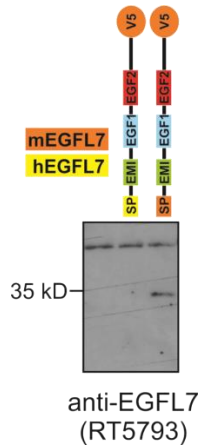


Figure 1. Western analysis of recombinant human and mouse EGFL7. There is no cross reactivity visible with human EGFL-7.

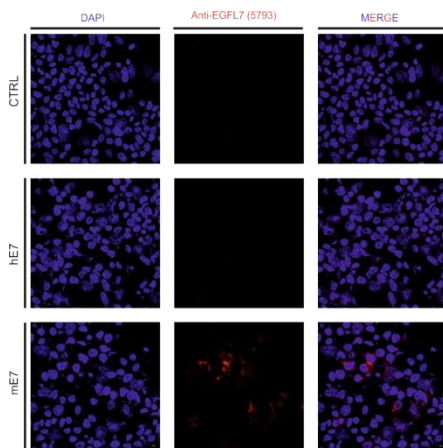


Figure 2: Immunohistochemical staining (ICC) of human or mouse EGFL7 constructs overexpressed in HEK293T cells.

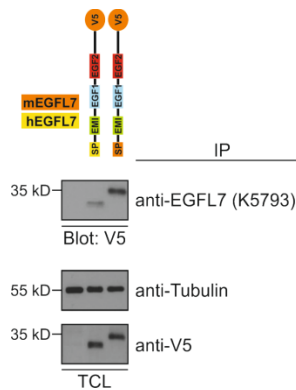


Figure 3. Immunoprecipitation of human and mouse EGFL7 constructs with anti-mouse EGFL7 (C terminus) and subsequent Western analysis with anti-V5 antibodies. Samples were loaded in 15% SDS-polyacrylamide gel under reducing conditions.