

ANGPTL4 Recombinant Polyclonal Antibody (1HCLC)

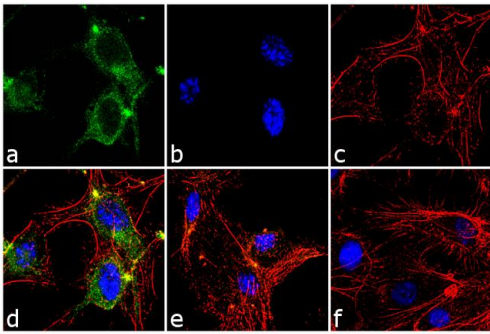
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotope	Rabbit / IgG
Class	Recombinant Polyclonal
Type	Antibody
Clone	1HCLC
Conjugate	Unconjugated
Immunogen	Peptide corresponding to amino acids 258-273 of human Angiopoietin-like 4
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532611

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	2-4 µg/mL	1 Publication
Immunocytochemistry (ICC)	✓	2 µg/mL	
Immunofluorescence (IF)	✓	2 µg/mL	

Product Specific Information

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds – the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody – recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets – a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.



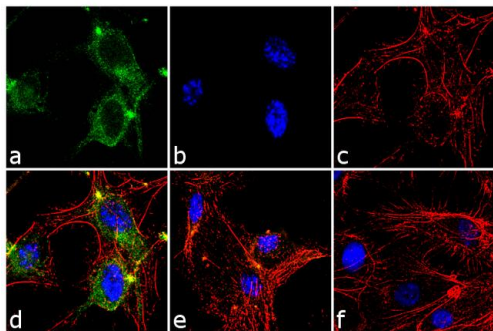
ANGPTL4 Antibody (710186)

Modulation of expression of target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of ANGPTL4 using Anti- ANGPTL4 Recombinant Rabbit Polyclonal Antibody (Product # 710186) shows increase in expression of ANGPTL4 in the cytoplasm of HUVEC cell upon treatment with cobalt chloride. Cell Treatment validation info.

Product Images For ANGPTL4 Recombinant Polyclonal Antibody (1HCLC)

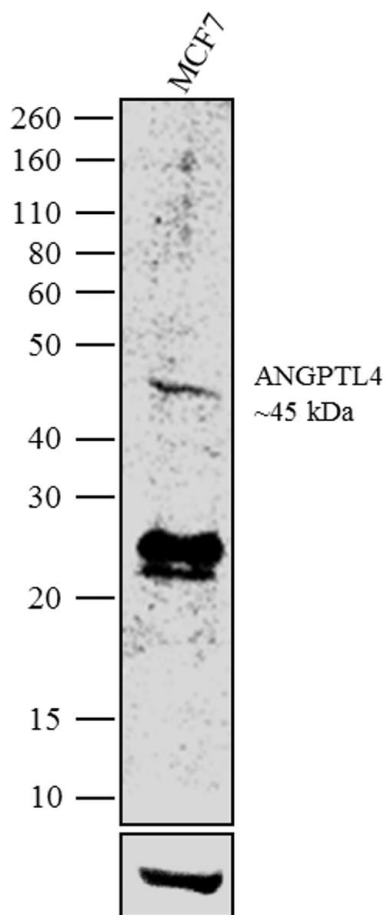
ANGPTL4 Antibody (710186) in IF

Immunofluorescence analysis of ANGPTL4 was performed using 70% confluent log phase HUVEC cells treated with 150uM of Cobalt Chloride for 24 h. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with ANGPTL4 (1HCLC) Recombinant Rabbit Polyclonal Antibody (Product # 710186) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e is untreated cell with no signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



ANGPTL4 Antibody (710186) in WB

Western blot analysis of ANGPTL4 was performed using whole cell extract (30 µg lysate) of MCF7 (Lane 1). The blots were probed with Anti-ANGPTL4 Recombinant Rabbit Polyclonal Antibody (Product # 710186, 2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 45 kDa band corresponding to ANGPTL4 was observed across the cell line tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



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Western Blot (1)

PloS one

Cyclic strain alters the expression and release of angiogenic factors by human tendon cells.

"710186 was used in western blot to study the expression and release of various angiogenic factors by human tendon cells in response to cyclic stress"

Authors: Mousavizadeh R,Khosravi S,Behzad H,McCormack RG,Duronio V,Scott A

Species
Human

Dilution
Not Cited

Year
2015

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