

ANGPTL4 Recombinant Polyclonal Antibody (1HCLC)

Catalog Number710186

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Recombinant Polyclonal	Tested Applications	
Type	Antibody	Western Blot (WB)	2-4 µg/mL
Clone	1HCLC	Immunocytochemistry (ICC/IF)	2 µg/mL
Immunogen	Peptide corresponding to amino acids 258-273 of human Angiopoietin-like 4	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
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.		

Product specific information

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.

Background/Target Information

Angiopoietin-like protein 4 (ANGPTL4), is a secreted protein selectively expressed in adipose tissue, liver, and placenta1-3 that plays a variety of roles in vivo, ranging from adipogenesis to angiogenesis to carcinogenesis. The expression of ANGPTL4 is also under nutritional and hormonal control. ANGPTL4 has been observed to induce a strong pro-angiogenic response independent of vascular endothelial growth factor (VEGF), and its expression has been described in hypoxic human tissues as well as a variety of cancers, including liposarcoma, hepatocellular carcinoma, and conventional renal cell carcinoma.

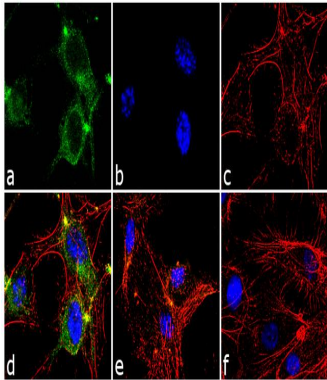
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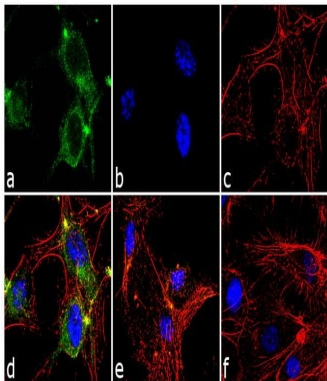
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Product Images For ANGPTL4 Recombinant Polyclonal Antibody (1HCLC)



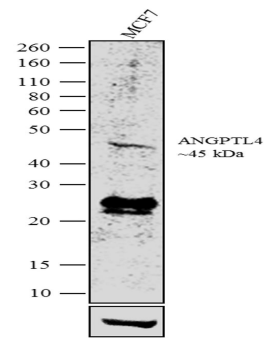
ANGPTL4 Antibody (710186)

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. {TM}



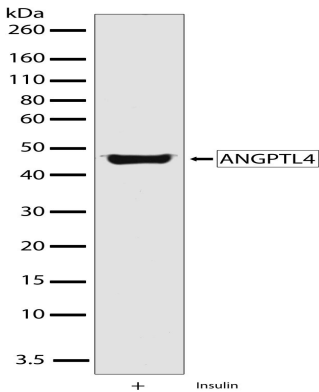
ANGPTL4 Antibody (710186) in ICC/IF

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 (Heavy Chain) 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 (Heavy Chain) 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).



ANGPTL4 Antibody (710186) in WB

Western blot analysis of ANGPTL4 in whole cell extracts of serum-starved 3T3 L1 cells treated with Insulin (100 ng /mL, 15 min) using an ANGPTL4 Recombinant Rabbit Polyclonal Antibody (Product # 710186) at a dilution of 2 µg /mL. Samples were detected using chemiluminescence (ECL). Results show a band at ~45 kDa.

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