

Anti-Angiopoietin-like 4/ANGPTL4 Antibody Picoband™

Catalog Number: A01147

About ANGPTL4

Angiopoietin-related protein 4 (Angptl4) is a protein that in humans is encoded by the ANGPTL4 gene. This gene is a member of the angiopoietin/angiopoietin-like gene family and encodes a glycosylated, secreted protein with a fibrinogen C-terminal domain. And this gene is induced under hypoxic conditions in endothelial cells and is the target of peroxisome proliferation activators. By radiation hybrid analysis, Angptl4 gene is mapped to 19p13.3. ANGPTL4 contributed to tumor growth and protected cells from anoikis, a form of programmed cell death induced when contact-dependent cells detach from the surrounding tissue matrix.

Overview

Product Name	Anti-Angiopoietin-like 4/ANGPTL4 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Angiopoietin-like 4/ANGPTL4 Antibody Picoband™ catalog # A01147. Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9BY76

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ANGPTL4, different from the related mouse and rat sequences by seven amino acids.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: ELISA , 0.1-0.5ug/ml, Human, - Western blot, 0.1-0.5ug/ml, Human

Anti-Angiopoietin-like 4/ANGPTL4 Antibody Picoband™ (A01147) Images



Figure 1. Western blot analysis of ANGPTL4 using anti-ANGPTL4 antibody (A01147).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. lane 1: recombinant human ANGPTL4 protein 1ng
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ANGPTL4 antigen affinity purified polyclonal antibody (Catalog # A01147) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ANGPTL4 at approximately 55KD. The expected band size for ANGPTL4 is at 44KD.

1 Publications Citing This Product

1. PubMed ID: -, Zhao,J.,Liu,J.,Wu,N.,Zhang,H.,Zhang,S.,Li,L.,& Wang,M.(2020).ANGPTL4 overexpression is associated with progression and poor prognosis in breast cancer.Oncology Letters,20,2499-2505.<https://doi.org/10.3892/ol.2020.11768>

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