

Anti-Perilipin A/PLIN1 Antibody Picoband®

Catalog Number: A03918-1

About PLIN1

Perilipin, also known as lipid droplet-associated protein or PLIN, is a protein that, in humans, is encoded by the PLIN gene. The protein encoded by this gene coats lipid storage droplets in adipocytes, thereby protecting them until they can be broken down by hormone-sensitive lipase. The encoded protein is the major cAMP-dependent protein kinase substrate in adipocytes and, when unphosphorylated, may play a role in the inhibition of lipolysis.

Overview

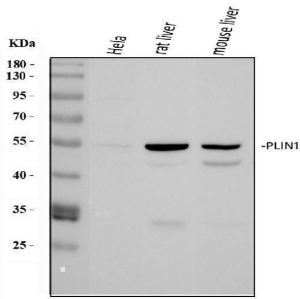
Product Name	Anti-Perilipin A/PLIN1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Perilipin A/PLIN1 Antibody Picoband® catalog # A03918-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	O60240

Technical Details

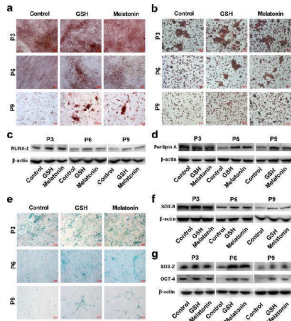
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Perilipin A, which shares 80% amino acid (aa) sequence identity with both mouse and rat Perilipin A.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western 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	Western blot, 0.1-0.5ug/ml

Anti-Perilipin A/PLIN1 Antibody Picoband® (A03918-1) Images



Western blot analysis of Perilipin A using anti-Perilipin A antibody (A03918-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: rat liver tissue lysates, Lane 3: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-Perilipin A antigen affinity purified polyclonal antibody (Catalog # A03918-1) 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 1:5000 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 Perilipin A at approximately 56 kDa. The expected band size for Perilipin A is at 56 kDa.



Antioxidants preserve ADSC cell stemness and multidirectional differentiation potential during long-term in vitro expansion. After treatment with 10 uM GSH or melatonin, the ADSCs cultured for passage 3 (P3), passage 6 (P6), and passage 9 (P9) were used in the following analysis. a Osteogenesis differentiation of passaged ADSCs (Alizarin Red S staining; scale bar, 50 um). b Adipogenesis differentiation of passaged ADSCs (Oil Red O staining; scale bar, 50 um). c Western blot analysis for RUNX-2 in osteogenic cells. d Western blot analysis for perilipin A in adipogenic cells. e Chondrogenesis differentiation of passaged ADSCs (Alcian blue staining; scale bar, 50 um). f Western blot analysis for SOX-9 in chondrogenic cells. g Western blot analysis for SOX-2, OCT-4, and beta-actin in ADSCs. ADSCs, adipose tissue-derived stem cells; GSH, reduced glutathione Index in PubMed under a CC BY license. PMID: 31623678

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