

Rabbit Perilipin A Polyclonal Antibody | anti-PLIN1 antibody

Anti-Perilipin A Picoband Antibody

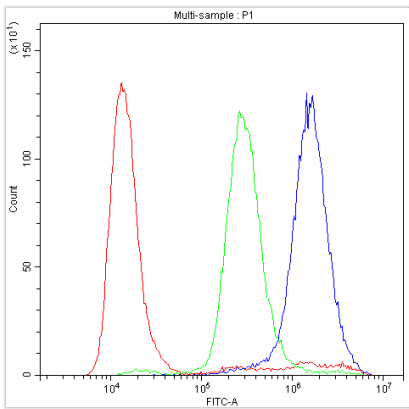
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124716	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot

PRODUCT SYNONYMS

Perilipin A; Polyclonal Antibody; Anti-Perilipin A Picoband Antibody; Perilipin-1; Lipid droplet-associated protein; PLIN1; PERI; PLIN; anti-PLIN1 antibody

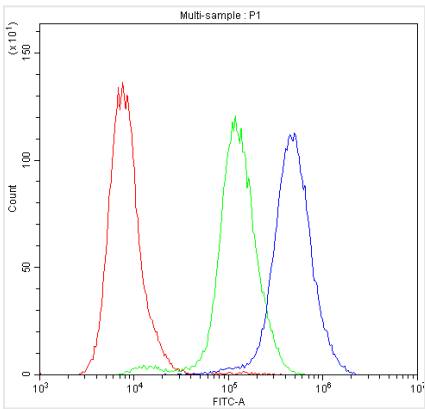
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	522
Applicable Applications for anti-PLIN1 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human Perilipin A (DKVLGAALAGCELAWGVARDTAEFAANTRAGRLAS).
Subcellular Localization	Endoplasmic reticulum
Tissue Specificity	Adipocytes.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



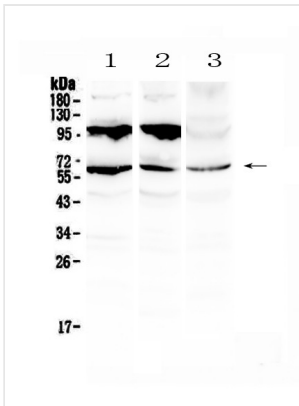
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U2OS cells using anti-Perilipin A antibody (AAA124716).Overlay histogram showing U2OS cells stained with AAA124716 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Perilipin A Antibody (AAA124716,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A431 cells using anti-Perilipin A antibody (AAA124716).Overlay histogram showing A431 cells stained with AAA124716 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Perilipin A Antibody (AAA124716,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Perilipin A using anti-Perilipin A antibody (AAA124716).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 50ug of sample under reducing conditions.Lane 1: rat liver tissue lysates,Lane 2: mouse liver tissue lysates,Lane 3: human HepG2 whole cell lysates.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-Perilipin A antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for Perilipin A at approximately 62KD. The expected band size for Perilipin A is at 56KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PLIN1 antibody

Description: 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.

Protein Function: Modulator of adipocyte lipid metabolism. Coats lipid storage droplets to protect them from breakdown by hormone- sensitive lipase (HSL). Its absence may result in leanness. Plays a role in unilocular lipid droplet formation by activating CIDEC. Their interaction promotes lipid droplet enlargement and directional net neutral lipid transfer. May modulate lipolysis and triglyceride levels.

Product Categories/Family for anti-
PLIN1 antibody

Cardiovascular; Lipids/Lipoproteins; Adipose Related; Lipid Droplet Protein; Signal Transduction; Metabolism;
Lipid Metabolism; Cardiovascular; Atherosclerosis; Lipoprotein Metabolism; Cancer; Cancer Metabolism;
Metabolic Signaling Pathway; Metabolism of

NCBI AND UNIPROT INFORMATION

NCBI GI #	223718203
NCBI GeneID	5346
NCBI Accession #	NP_001138783.1
NCBI GenBank Nucleotide #	NM_001145311.1
UniProt Accession #	O60240; Q8N5Y6
Molecular Weight	55,990 Da
NCBI Official Full Name	perilipin-1
NCBI Official Synonym Full Names	perilipin 1
NCBI Official Symbol	PLIN1
NCBI Official Synonym Symbols	PERI; PLIN; FPLD4
NCBI Protein Information	perilipin-1
UniProt Protein Name	Perilipin-1
UniProt Gene Name	PLIN1
UniProt Synonym Gene Names	PERI; PLIN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/perilipin-a-antibody-western-blot-elisa/124716>