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Anti-Perilipin 3 Picoband Antibody

Catalog # ABO11631

Specification

Anti-Perilipin 3 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	O60664
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Perilipin-3(PLIN3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Perilipin 3 Picoband Antibody - Additional Information

Gene ID 10226

Other Names
Perilipin-3, 47 kDa mannose 6-phosphate receptor-binding protein, 47 kDa MPR-binding protein, Cargo selection protein TIP47, Mannose-6-phosphate receptor-binding protein 1, Placental protein 17, PP17, PLIN3, M6PRBP1, TIP47

Calculated MW
47075 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cytoplasm . Endosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Lipid droplet . Membrane associated on endosomes. Detected in the envelope and the core of lipid bodies and in lipid sails.

Protein Name
Perilipin-3

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Perilipin 3 (323-365aa ESRALTMFRDIAQQLQATCTSLGSSIQGLPTNVKDQVQQA RRQ), different from the related mouse sequence by fourteen amino acids.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Perilipin 3 Picoband Antibody - Protein Information

Name PLIN3

Synonyms M6PRBP1, TIP47 {ECO:0000303|PubMed:95901

Function
Structural component of lipid droplets, which is required for the formation and maintenance of lipid storage droplets (PubMed:34077757). Required for the transport of mannose 6-phosphate receptors (MPR) from endosomes to the trans-Golgi network (PubMed:9590177).

Cellular Location
Lipid droplet. Endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm. Note=Membrane associated on endosomes (PubMed:15545278). Detected in the envelope and the core of lipid bodies and in lipid sails (PubMed:15545278)

Anti-Perilipin 3 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Perilipin 3 Picoband Antibody - Images

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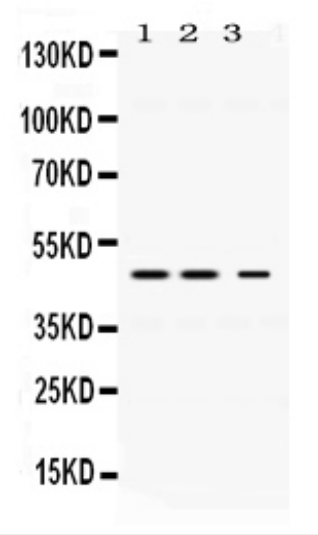
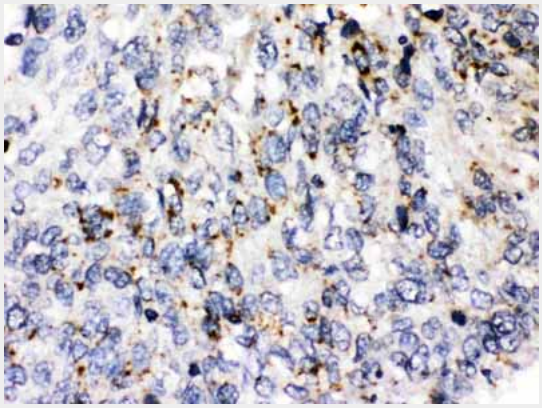


Western blot analysis of Perilipin 3 expression in rat liver extract (lane 1), mouse kidney extract (lane 2) and HELA whole cell lysates (lane 3). Perilipin 3 at 47KD was detected using rabbit anti-Perilipin 3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11631) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



Perilipin 3 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Perilipin 3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11631) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .

Anti-Perilipin 3 Picoband Antibody - Background

Mannose-6-phosphate receptor binding protein 1 (M6PRBP1), also known as Perilipin 3 (PLN3) or TIP47, is a protein which in humans is encoded by the M6PRBP1 gene. Mannose 6-phophate receptors (MPRs) deliver lysosomal hydrolase from the Golgi to endosomes and then return to the Golgi complex. The protein encoded by this gene interacts with the cytoplasmic domains of both cation-independent and cation-dependent MPRs, and is required for endosome-to-Golgi transport. This protein also binds directly to the GTPase RAB9 (RAB9A), a member of the RAS oncogene family. The interaction with RAB9 has been shown to increase the affinity of this protein for its cargo. Multiple transcript variants encoding different isoforms have been found for this gene.