

Anti-Perilipin 3 Picoband Antibody

Catalog # ABO11631

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.

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
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.
Source	Eukaryota
Protein Name	Perilipin-3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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 reconstitution, 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.

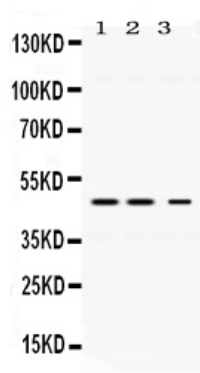
Protein Information

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)

Background

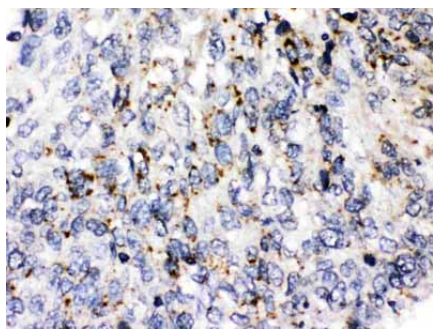
Mannose-6-phosphate receptor binding protein 1 (M6PRBP1), also known as Perilipin 3 (PLN3) or TIP47, is a protein which in humans is encoded by the M6PRBP1 gene. Mannose 6-phosphate receptors (MPRs) deliver lysosomal hydrolase from the Golgi to endosomes and then return to the Golgi complex. The protein 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.

Images



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 47kDa was detected using rabbit anti- Perilipin 3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11631) at 0.5 µg/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 µg/mL. The immunohistochemical section was developed using SABC method .



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