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PLIN3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP18857c

Specification

PLIN3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O60664

PLIN3 Antibody (Center) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PLIN3 Antibody (Center) Blocking Peptide - 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)

PLIN3 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

PLIN3 Antibody (Center) Blocking Peptide - Images

PLIN3 Antibody (Center) Blocking Peptide - Background

Mannose 6-phophate receptors (MPRs) deliver lysosomalhydrolase from the Golgi to endosomes and then return to the Golgicomplex. The protein encoded by this gene interacts with thecytoplasmic domains of both cation-independent and cation-dependentMPRs, and is required for endosome-to-Golgi transport. This proteinalso binds directly to the GTPase RAB9 (RAB9A), a member of the RASoncogene family. The interaction with RAB9 has been shown toincrease the affinity of this protein for its cargo. Multipletranscript variants encoding different isoforms have been found forthis gene.

PLIN3 Antibody (Center) Blocking Peptide - References

Hocsak, E., et al. FEBS Lett. 584(13):2953-2960(2010)Bauby, H., et al. Traffic 11(4):455-467(2010)Kimmel, A.R., et al. J. Lipid Res. 51(3):468-471(2010)Espinosa, E.J., et al. Cell 137(5):938-948(2009)Bulankina, A.V., et al. J. Cell Biol. 185(4):641-655(2009)