

PLIN3 Rabbit pAb

Catalog # AP98437

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O60664
Other Accession	O60664
Predicted	Rat, Pig, Human, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47075
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PLIN3
Epitope Specificity	351-434/434
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the perilipin family.
SUBUNIT	Homooligomer. Interacts with M6PR (via the cytoplasmic domain). Interacts with IGF2R (via the cytoplasmic domain). Isoform 2 may exist as a homodimer (known as PP17C).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.[provided by RefSeq, Aug 2009]

Additional Information

Gene ID	10226
Other Names	M6PRBP1; PP17; TIP47; PLIN3_HUMAN; PLIN3; 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); perilipin 3; mannose-6-phosphate receptor binding protein 1; cargo selection protein (mannose 6 phosphate receptor binding protein); placental protein 17; MPR-BINDING PROTEIN, 47-KD
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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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)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.