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PLIN3 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8697b

Product Information

Application	WB, FC, E
Primary Accession	O60664
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a,k
Clone Names	1651CT490.66.85
Calculated MW	47075

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
Target/Specificity	This PLIN3 antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 1-434 amino acids from human PLIN3.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PLIN3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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)

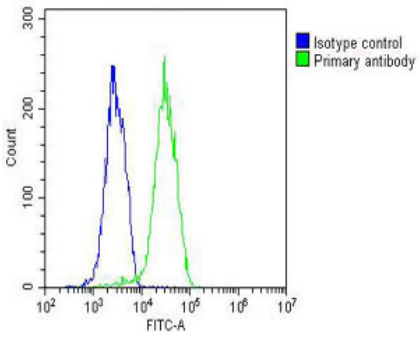
Background

Required for the transport of mannose 6-phosphate receptors (MPR) from endosomes to the trans-Golgi network.

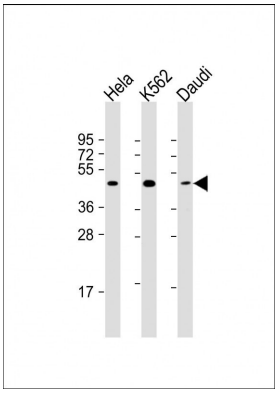
References

Diaz E.,et al.Cell 93:433-443(1998).
Than N.G.,et al.Eur. J. Biochem. 258:752-757(1998).
Than N.G.,et al.Tumor Biol. 20:184-192(1999).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



Overlay histogram showing HUVEC cells stained with AM8697b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AM8697b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OJ192088) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was mouse IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



All lanes : Anti-PLIN3 Antibody at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: K562 whole cell lysate Lane 3: Daudi whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.