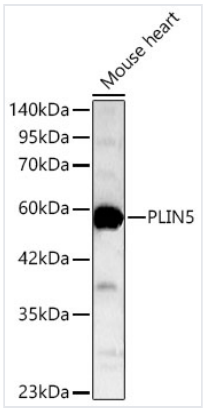
PLIN5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PLIN5, Polyclonal Antibody
Full Product Name	PLIN5 Rabbit pAb
Product Gene Name	anti-PLIN5 antibody
Product Synonym Names	MLDP; LSDA5; LSDP5; OXPAT
Immunogen Sequence	ESSVRGLPAG AQEKVAEVRR SVDALQTAFA DARCFRDVPA AALAEGRGRV AHAHACVDEL LELVVQAVPL PWLVGPFAPI LVERPEPLPD LADLVDEVIG
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 51kDa Observed MW: 55kDa
OMIM	DQ839131 mRNA
3D Structure	ModBase 3D Structure for Q00G26
Cross Reactivity	Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 302-401 of human PLIN5 (NP_001013728.2).
Product Categories/Family for anti-PLIN5 antibody	Endocrine Metabolism; Lipid Metabolism; Cardiovascular; Lipids; Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PLIN5 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PLIN5 antibody	WB: 1:500-1:1000 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Related Product Information for anti-PLIN5 antibody	Predicted to enable identical protein binding activity and lipase binding activity. Predicted to be involved in several processes, including negative regulation of peroxisome proliferator activated receptor signaling pathway; regulation of lipase activity; and regulation of lipid metabolic process. Located in intracellular membrane-bounded organelle and lipid droplet.
Other Notes	Small volumes of anti-PLIN5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PLIN5 purchase	MBS9148720 is an antibody targeting PLIN5. Also known as PLIN5 Rabbit pAb. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PLIN5 antibody
Western blot analysis of lysates from Mouse heart using PLIN5 Rabbit pAb (MBS9148720) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25 ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time:1s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLIN5. It may not necessarily be applicable to this product.

NCBI GI #	116292172
NCBI GeneID	440503
NCBI Accession #	NP_001013728.2
UniProt Primary Accession #	Q00G26
UniProt Secondary Accession #	Q6ZS68; A2RRC1
UniProt Related Accession #	Q00G26
GenBank Nucleotide #	NM_001013706.2
UniProt Protein Name	Perilipin-5
UniProt Synonym Protein Names	Lipid storage droplet protein 5
Protein Family	Perilipin
UniProt Gene Name	PLIN5
UniProt Synonym Gene Names	LSDP5; OXPAT; PAT-1
UniProt Comments for PLIN5	Lipid droplet-associated protein that maintains the balance between lipogenesis and lipolysis and also regulates fatty acid oxidation in oxidative tissues. Recruits mitochondria to the surface of lipid droplets and is involved in lipid droplet homeostasis by regulating both the storage of fatty acids in the form of triglycerides and the release of fatty acids for mitochondrial fatty acid oxidation. In lipid droplet triacylglycerol hydrolysis, plays a role as a scaffolding protein for three major key lipolytic players: ABHD5, PNPLA2 and LIPE. Reduces the triacylglycerol hydrolase activity of PNPLA2 by recruiting and sequestering PNPLA2 to lipid droplets. Phosphorylation by PKA enables lipolysis probably by promoting release of ABHD5 from the perilipin scaffold and by facilitating interaction of ABHD5 with PNPLA2. Also increases lipolysis through interaction with LIPE and upon PKA-mediated phosphorylation of LIPE ().
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