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FITM2 Rabbit pAb

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Catalog # AP94103

Product Information

Application	WB
Primary Accession	Q8N6M3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29855
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FITM2
Epitope Specificity	1-100/262
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane.
SIMILARITY	Belongs to the FIT family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FIT2 belongs to an evolutionarily conserved family of proteins involved in fat storage (Kadereit et al., 2008 [PubMed 18160536]).[supplied by OMIM, May 2008]

Additional Information

Gene ID	128486
Other Names	Acyl-coenzyme A diphosphatase FITM2 {ECO:0000255|HAMAP-Rule:MF_03230, ECO:0000303|PubMed:32915949}, 3.6.1.- {ECO:0000255|HAMAP-Rule:MF_03230, ECO:0000269|PubMed:32915949}, Fat storage-inducing transmembrane protein 2 {ECO:0000255|HAMAP-Rule:MF_03230}, Fat-inducing protein 2 {ECO:0000255|HAMAP-Rule:MF_03230}, FITM2 {ECO:0000255|HAMAP-Rule:MF_03230, ECO:0000312|HGNC:HGNC:16135}
Target/Specificity	Plays an important role in lipid droplet accumulation.
Dilution	WB=1:500-2000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

Protein Information

Name	FITM2 {ECO:0000255|HAMAP-Rule:MF_03230, ECO:0000312|HGNC:HGNC:16135}
Function	Fatty acyl-coenzyme A (CoA) diphosphatase that hydrolyzes fatty acyl-CoA to yield acyl-4'-phosphopantetheine and adenosine 3',5'- bisphosphate (By similarity) (PubMed:32915949). Preferentially hydrolyzes unsaturated long-chain acyl-CoA substrates such as oleoyl- CoA/(9Z)-octadecenoyl-CoA and arachidonoyl-CoA/(5Z,8Z,11Z,14Z)- eicosatetraenoyl-CoA in the endoplasmic reticulum (ER) lumen (By similarity) (PubMed:32915949). This catalytic activity is required for maintaining ER structure and for lipid droplets (LDs) biogenesis, which are lipid storage organelles involved in maintaining lipid and energy homeostasis (By similarity) (PubMed:18160536, PubMed:32915949). Directly binds to diacylglycerol (DAGs) and triacylglycerol, which is also important for LD biogenesis (By similarity). May support directional budding of nacent LDs from the ER into the cytosol by reducing DAG levels at sites of LD formation (By similarity). Plays a role in the regulation of cell morphology and cytoskeletal organization (By similarity) (PubMed:21834987).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000255|HAMAP-Rule:MF_03230, ECO:0000269|PubMed:18160536}; Multi- pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03230}
Tissue Location	Widely expressed..

Background

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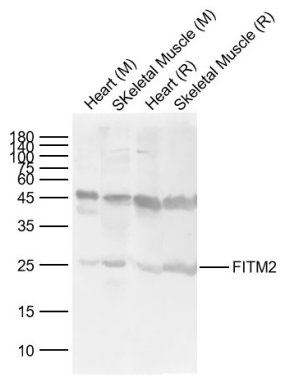
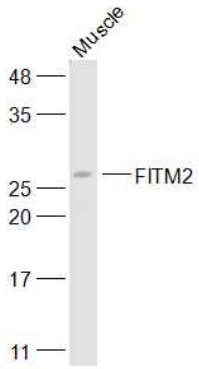
Images



Sample: Lane 1: Mouse Heart Lysates Lane 2: Mouse Skeletal Muscle Lysates Lane 3: Rat Heart Lysates Lane 4: Rat Skeletal Muscle Lysates Primary: Anti-FITM2 (AP94103) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 30kDa Observed band size: 25kDa

Sample: Muscle (Mouse) Lysate at 40 ug Primary: Anti-FITM2 (AP94103) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 30 kD Observed band size: 28 kD



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