

FITM2 Rabbit pAb

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Catalog # AP94007

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8N6M3
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Rabbit, Sheep
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.
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}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

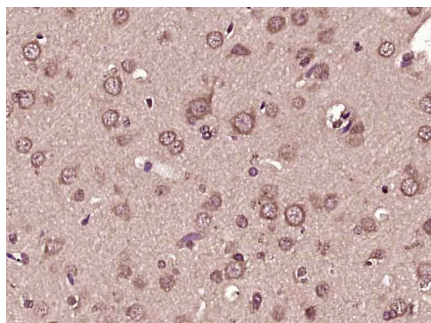
Protein Information

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 nascent 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 (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



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FITM2) Polyclonal Antibody, Unconjugated (AP94007) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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