

# FITM2 Rabbit pAb

FITM2 Rabbit pAb  
Catalog # AP94103

## Product Information

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| <b>Application</b>             | WB                                                                                                                                                            |
| <b>Primary Accession</b>       | <a href="#">Q8N6M3</a>                                                                                                                                        |
| <b>Reactivity</b>              | Rat, Mouse                                                                                                                                                    |
| <b>Predicted</b>               | Pig, Dog, Human, Sheep                                                                                                                                        |
| <b>Host</b>                    | Rabbit                                                                                                                                                        |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                    |
| <b>Calculated MW</b>           | 29855                                                                                                                                                         |
| <b>Physical State</b>          | Liquid                                                                                                                                                        |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human FITM2                                                                                                     |
| <b>Epitope Specificity</b>     | 1-100/262                                                                                                                                                     |
| <b>Isotype</b>                 | IgG                                                                                                                                                           |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                             |
| <b>SUBCELLULAR LOCATION</b>    | Endoplasmic reticulum membrane.                                                                                                                               |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                     |
| <b>Background Descriptions</b> | 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

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| <b>Gene ID</b>     | 128486                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Other Names</b> | Acyl-coenzyme A diphosphatase FITM2<br>{ECO:0000255 HAMAP-Rule:MF_03230, ECO:0000303 PubMed:32915949},<br>3.6.1.- {ECO:0000255 HAMAP-Rule:MF_03230,<br>ECO:0000269 PubMed:32915949}, Fat storage-inducing transmembrane<br>protein 2 {ECO:0000255 HAMAP-Rule:MF_03230}, Fat-inducing protein 2<br>{ECO:0000255 HAMAP-Rule:MF_03230}, FITM2<br>{ECO:0000255 HAMAP-Rule:MF_03230, ECO:0000312 HGNC:HGNC:16135} |
| <b>Dilution</b>    | WB=1:500-2000                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>     | 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

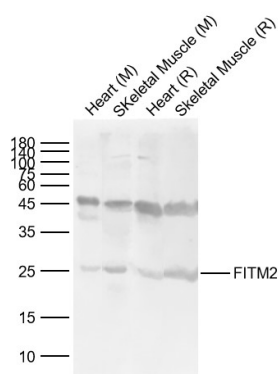
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| <b>Name</b>              | FITM2 {ECO:0000255   HAMAP-Rule:MF_03230, ECO:0000312   HGNC:HGNC:16135}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Function</b>          | Fatty acyl-coenzyme A (CoA) diphosphatase that hydrolyzes fatty acyl-CoA to yield acyl-4'-phosphopantetheine and adenosine 3',5'- bisphosphate (By similarity) (PubMed: <a href="#">32915949</a> ). 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: <a href="#">32915949</a> ). 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: <a href="#">18160536</a> , PubMed: <a href="#">32915949</a> ). 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: <a href="#">21834987</a> ). |
| <b>Cellular Location</b> | Endoplasmic reticulum membrane {ECO:0000255   HAMAP-Rule:MF_03230, ECO:0000269   PubMed:18160536}; Multi- pass membrane protein {ECO:0000255   HAMAP-Rule:MF_03230}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Tissue Location</b>   | 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

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