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FAR1 Rabbit pAb

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Catalog # AP59256

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8WVX9
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59357
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAR1
Epitope Specificity	55-160/515
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	Peroxisome membrane; Single-pass membrane protein (Potential).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The conversion of fatty acids to fatty alcohols is required for the synthesis of wax monoesters and ether lipids. Members of the fatty acyl-CoA reductase family, including FAR1 (fatty acyl-CoA reductase 1) and FAR2 (fatty acyl-CoA reductase 2), play a role in catalyzing the reduction of saturated fatty acyl-CoA with chain length C16 or C18 to fatty alcohols. FAR1, also known as male sterility domain-containing protein 2 (MLSTD2) or short chain dehydrogenase/reductase family 10E, member 1 (SDR10E1), is a 515 amino acid single-pass membrane protein that localizes to the peroxisome, FAR1 is suggested to be essential for providing fatty alcohols required for ether bond formation in ether glycerophospholipid synthesis. The gene encoding FAR1 is located on chromosome 11, which comprises nearly 4% of the human genome.

Additional Information

Gene ID	84188
Other Names	Fatty acyl-CoA reductase 1, FAR1, 1.2.1.84, Male sterility domain-containing protein 2 {ECO:0000312|HGNC:HGNC:26222}, FAR1 (HGNC:26222)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	FAR1 (HGNC:26222)
Function	Catalyzes the reduction of saturated and unsaturated C16 or C18 fatty acyl-CoA to fatty alcohols (PubMed:15220348, PubMed:24108123, PubMed:35238077). It plays an essential role in the production of ether lipids/plasmalogens which synthesis requires fatty alcohols (PubMed:20071337, PubMed:24108123, PubMed:33239752). In parallel, it is also required for wax monoesters production since fatty alcohols also constitute a substrate for their synthesis (By similarity) (PubMed:24108123, PubMed:35238077).
Cellular Location	Peroxisome membrane; Single-pass membrane protein

Background

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