10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FAR2 Rabbit pAb

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Catalog # AP54241

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96K12
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59438
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAR2
Epitope Specificity	51-150/515
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; Multi-pass membrane protein (Potential). Endoplasmic reticulum membrane; Multi-pass membrane protein (Potential). Note=Peroxisome in cells expressing low levels of the protein. Peroxisome and endoplasmic reticulum in cells expressing high levels of the protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene belongs to the short chain dehydrogenase/reductase superfamily. It encodes a reductase enzyme involved in the first step of wax biosynthesis wherein fatty acids are converted to fatty alcohols. The encoded peroxisomal protein utilizes saturated fatty acids of 16 or 18 carbons as preferred substrates. Alternatively spliced transcript variants have been observed for this gene. Related pseudogenes have been identified on chromosomes 2, 14 and 22. [provided by RefSeq, Nov 2012]

Additional Information

Gene ID	55711
Other Names	Fatty acyl-CoA reductase 2, FAR2, 1.2.1.84, Male sterility domain-containing protein 1 {ECO:0000312|HGNC:HGNC:25531}, FAR2 (HGNC:25531)
Dilution	WB=1:500-2000,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.

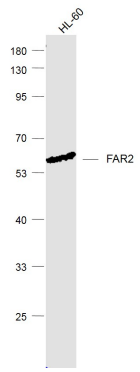
Protein Information

Name	FAR2 (HGNC:25531)
Function	Catalyzes the reduction of saturated but not unsaturated C16 or C18 fatty acyl-CoA to fatty alcohols (FAls) (PubMed:15220348). A lower activity can be observed with shorter fatty acyl-CoA substrates (PubMed:15220348). Can produce very long-chain and ultra long-chain FAls, regardless of whether they have a straight or branched chain (PubMed:35238077). Involved in the production of ether lipids/plasmalogens and wax monoesters whose synthesis requires FAls as substrates (PubMed:24108123, PubMed:35238077).
Cellular Location	Peroxisome membrane; Single-pass membrane protein

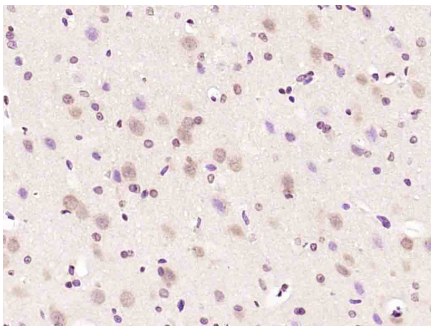
Background

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Images



Sample:
HL-60 (Human) Cell Lysate at 30 ug
Primary: Anti-FAR2 (AP54241) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 57 kD
Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); 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 (FAR2) Polyclonal Antibody, Unconjugated (AP54241) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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