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Fa2h antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10466

Product Information

Application	WB
Primary Accession	Q5MPP0
Other Accession	NM_178086, NP_835187
Reactivity	Human, Mouse, Rat, Zebrafish, Dog, Bovine
Predicted	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42981

Additional Information

Gene ID	338521
Alias Symbol	FAAH, Faxdc1, G630055L08Rik
Other Names	Fatty acid 2-hydroxylase, 1.-.-.-, Fatty acid alpha-hydroxylase, Fa2h, Faah
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Fa2h antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Fa2h antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FA2H
Function	Catalyzes the hydroxylation of free fatty acids at the C-2 position to produce 2-hydroxy fatty acids, which are building blocks of sphingolipids and glycosphingolipids common in neural tissue and epidermis (PubMed:15658937, PubMed:16998236, PubMed:22517924). FA2H is stereospecific for the production of (R)-2-hydroxy fatty acids (PubMed:22517924). Plays an essential role in the synthesis of galactosphingolipids of the myelin sheath (PubMed:15658937, PubMed:18815260). Responsible for the synthesis of sphingolipids and glycosphingolipids involved in the formation of epidermal lamellar bodies critical for skin permeability barrier (By similarity). Participates in the synthesis of glycosphingolipids and a fraction of type II wax diesters in

sebaceous gland, specifically regulating hair follicle homeostasis (PubMed:21628453). Involved in the synthesis of sphingolipids of plasma membrane rafts, controlling lipid raft mobility and trafficking of raft-associated proteins (PubMed:22517924).

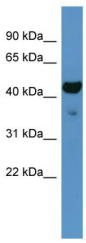
Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Microsome membrane; Multi-pass membrane protein

Tissue Location

Expressed in brain (at protein level) (PubMed:16998236). Detected in cerebellum and forebrain (PubMed:15658937, PubMed:18815260). Expression in the white matter is mainly restricted in oligodendrocytes (PubMed:15658937). Expressed in stomach, kidney, skin and testis (PubMed:15658937). Expressed in sebaceous gland (PubMed:21628453).

Images



WB Suggested Anti-Fa2h Antibody Titration: .2-1 ug/ml
ELISA Titer: 1:15625
Positive Control: Mouse liver