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Fa2h antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10466

Specification

Fa2h antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q5MPP0
Other Accession	NM_178086, NP_835187
Reactivity	**Human, Mouse, Rat, Zebrafish, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**43kDa KDa**

Fa2h antibody - C-terminal region - 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.

Fa2h antibody - C-terminal region - 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:<a href="http://www.uniprot.org/citations/22517924"

target="_blank">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:18815260, PubMed:15658937). 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).

Fa2h antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

