

**FA2H Antibody (Center) Blocking Peptide**  
Synthetic peptide  
Catalog # BP4799c**Specification****FA2H Antibody (Center) Blocking Peptide -  
Product Information**Primary Accession [Q7L5A8](#)**FA2H Antibody (Center) Blocking Peptide -  
Additional Information**

Gene ID 79152

**Other Names**Fatty acid 2-hydroxylase, 1---, Fatty acid  
alpha-hydroxylase, FA2H, FAAH**Format**Peptides are lyophilized in a solid powder  
format. Peptides can be reconstituted in  
solution using the appropriate buffer as  
needed.**Storage**Maintain refrigerated at 2-8°C for up to 6  
months. For long term storage store at  
-20°C.**Precautions**This product is for research use only. Not  
for use in diagnostic or therapeutic  
procedures.**FA2H Antibody (Center) Blocking Peptide -  
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: <http://www.uniprot.org/citations/15337768>  
target="\_blank">15337768</a>,  
PubMed: <http://www.uniprot.org/citations/15863841>)**FA2H Antibody (Center) Blocking Peptide -  
Background**FA2H is a protein that catalyzes the synthesis  
of 2-hydroxysphingolipids, a subset of  
sphingolipids that contain 2-hydroxy fatty  
acids. Sphingolipids play roles in many cellular  
processes and their structural diversity arises  
from modification of the hydrophobic ceramide  
moiety, such as by 2-hydroxylation of the  
N-acyl chain, and the existence of many  
different head groups.**FA2H Antibody (Center) Blocking Peptide -  
References**Wheeler, H.E., et al. PLoS Genet. 5 (10),  
E1000685 (2009) Edvardson, S., et al. Am. J.  
Hum. Genet. 83(5):643-648(2008)Uchida, Y., et  
al. J. Biol. Chem. 282(18):13211-13219(2007)

target="\_blank">15863841</a>, PubMed:<a href="http://www.uniprot.org/citations/17355976" target="\_blank">17355976</a>, PubMed:<a href="http://www.uniprot.org/citations/22517924" target="\_blank">22517924</a>). FA2H is stereospecific for the production of (R)-2-hydroxy fatty acids (PubMed:<a href="http://www.uniprot.org/citations/22517924" target="\_blank">22517924</a>). Plays an essential role in the synthesis of galactosphingolipids of the myelin sheath (By similarity). Responsible for the synthesis of sphingolipids and glycosphingolipids involved in the formation of epidermal lamellar bodies critical for skin permeability barrier (PubMed:<a href="http://www.uniprot.org/citations/17355976" target="\_blank">17355976</a>). Participates in the synthesis of glycosphingolipids and a fraction of type II wax diesters in sebaceous gland, specifically regulating hair follicle homeostasis (By similarity). Involved in the synthesis of sphingolipids of plasma membrane rafts, controlling lipid raft mobility and trafficking of raft-associated proteins (By similarity).

#### Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q5MPP0}; Multi-pass membrane protein. Mitochondrial membrane; Multi-pass membrane protein

#### Tissue Location

Detected in differentiating cultured keratinocytes (at protein level). Detected in epidermis and cultured keratinocytes (PubMed:17355976). Highly expressed in brain and colon. Detected at lower levels in testis, prostate, pancreas and kidney (PubMed:15337768).

### FA2H Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)