

FAM126A Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54542

Specification

FAM126A Polyclonal Antibody - Product Information

Application
Primary Accession

Reactivity
Host

Clonality Calculated MW Physical State

Immunogen

Epitope Specificity

Isotype Purity

affinity purified by Protein A

Buffer

SUBCELLULAR LOCATION

SIMILARITY DISEASE

Important Note

WB, IHC-P, IHC-F, IF, ICC, E

Q9BYI3

Rat, Pig, Dog Rabbit Polyclonal 58 KDa

Liquid

KLH conjugated synthetic peptide derived

from human FAM126A

1-100/521

IaG

0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

Cytoplasm. Membrane. According to

PubMed:10910037, it is mainly cytoplasmic while according to PubMed:16951682, it is

a membrane protein.

Belongs to the FAM126 family.

Defects in FAM126A are the cause of leukodystrophy hypomyelinating type 5 (HLD5) [MIM:610532]. This disorder is characterized by congenital cataract, progressive neurologic impairment, and diffuse myelin deficiency. Affected individuals experience progressive pyramidal and cerebellar dysfunction, muscle weakness and wasting prevailingly in the lower limbs. Mental deficiency

ranges from mild to moderate.

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Hyccin is a 521 amino acid cytoplasmic protein that is widely expressed with highest levels found in heart, brain, placenta, spleen and testis. Belonging to the FAM126 family, hyccin may play a role in the ∫-catenin/Lef signaling pathway. Hyccin is likely involved in the process of myelination of the central and peripheral nervous system. Defects in the gene encoding hyccin are the cause of leukodystrophy hypomyelinating type 5 (HLD5), which is characterized by congenital cataract, progressive neurologic impairment and diffuse myelin deficiency. Individuals affected by HLD5 experience progressive pyramidal and cerebellar dysfunction along with muscle weakness in the lower limbs. Hyccin exists as two alternatively spliced isoforms and is encoded by a gene located on human chromosome 7.



FAM126A Polyclonal Antibody - Additional Information

Gene ID 84668

Other Names

Hyccin, Down-regulated by CTNNB1 protein A, Protein FAM126A, FAM126A, DRCTNNB1A {ECO:0000303|PubMed:10910037}

Target/Specificity

Widely expressed. Highest levels in heart, brain, placenta, spleen and testis.

Dilution

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 < span class = "dilution_WB">WB~~1:1000 < /span> < br \> < span class = "dilution_IHC-P">IHC-P~~N/A < /span> < br \> < span class = "dilution_IHC-F">IHC-F~~N/A < /span> < br \> < span class = "dilution_IF">IF~~1:50~200 < /span> < br \> < span class = "dilution_ICC">ICC~~N/A < /span> < br \> < span class = "dilution_E">E~~N/A < /span> < br \> < span class = "dilution_E">E~~N/A < /span> < br \> < span class = "dilution_E">E~~N/A < /span> < br \> < span class = "dilution_E">E~~N/A < /span> < br \> < span class = "dilution_E">E~~N/A < /span> < br \> < span class = "dilution_E">E~~N/A < /span> < br \> < span class = "dilution_E">E~~N/A < /span> < br \> < span class = "dilution_E">E~~N/A < /span> < span class = "dilution_E">E~~N/A < /span < s
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Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

FAM126A Polyclonal Antibody - Protein Information

Name HYCC1 (HGNC:24587)

Function

Component of a complex required to localize phosphatidylinositol 4-kinase (PI4K) to the plasma membrane (PubMed:26571211). The complex acts as a regulator of phosphatidylinositol 4-phosphate (PtdIns(4)P) synthesis (PubMed:26571211). HYCC1 plays a key role in oligodendrocytes formation, a cell type with expanded plasma membrane that requires generation of PtdIns(4)P (PubMed:26571211). Its role in oligodendrocytes formation probably explains its importance in myelination of the central and peripheral nervous system (PubMed:16951682, PubMed:26571211(a>). May also have a role in the beta- catenin/Lef signaling pathway (Probable).

Cellular Location

Cytoplasm, cytosol. Cell membrane Note=Localizes to the cytosol and is recruited to the plasma membrane following interaction with other components of the phosphatidylinositol 4-kinase (PI4K) complex.

Tissue Location

Widely expressed. Highest levels in heart, brain, placenta, spleen and testis.

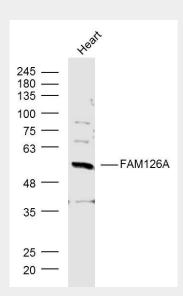


FAM126A Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

FAM126A Polyclonal Antibody - Images



Sample:

Heart (Mouse) Lysate at 40 ug

Primary: Anti-FAM126A (bs-11554R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD Observed band size: 58 kD