

FARP1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55071

Specification

FARP1 Polyclonal Antibody - Product Information

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

Primary Accession 09Y4F1

Reactivity Rat, Pig, Dog, Bovine Host **Rabbit** Clonality **Polyclonal**

Calculated MW 119 KDa Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human FARP1

laG

201-300/1045 **Epitope Specificity**

Isotype **Purity**

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

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasmic.

SIMILARITY Contains 1 DH (DBL-homology) domain.

Contains 1 FERM domain. Contains 2 PH

domains.

This product as supplied is intended for Important Note research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

FARP1 (FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1), also known as PLEKHC2 or CDEP, is a 1,045 amino acid protein that contains one FERM domain, one DH domain and two PH domains. Existing as multiple alternatively spliced isoforms that are expressed in fetal heart, brain and spleen, as well as in adult lung, kidney and testis, FARP1 is thought to function as a Rho-guanine nucleotide exchange factor that may play a role in linking the cell membrane to the cytoskeleton. The gene encoding FARP1 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

FARP1 Polyclonal Antibody - Additional Information

Gene ID 10160

Other Names

FERM, ARHGEF and pleckstrin domain-containing protein 1, Chondrocyte-derived ezrin-like protein, FERM, RhoGEF and pleckstrin domain-containing protein 1, Pleckstrin homology domain-containing family C member 2, PH domain-containing family C member 2, FARP1, CDEP, PLEKHC2



Dilution

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

Format

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

Storage

Store at -20 $^{\circ}$ 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 $^{\circ}$ C.

FARP1 Polyclonal Antibody - Protein Information

Name FARP1

Synonyms CDEP, PLEKHC2

Function

Functions as a guanine nucleotide exchange factor for RAC1. May play a role in semaphorin signaling. Plays a role in the assembly and disassembly of dendritic filopodia, the formation of dendritic spines, regulation of dendrite length and ultimately the formation of synapses (By similarity).

Cellular Location

Cell membrane; Peripheral membrane protein; Cytoplasmic side. Synapse. Synapse, synaptosome Cytoplasm, cytosol. Cell projection, filopodium. Cell projection, dendrite. Cell projection, dendritic spine. Note=Recruited to the cell membrane via interaction with CADM1.

Tissue Location

Detected in cAMP-treated chondrocytes, but not in untreated chondrocytes. Detected in fetal brain, heart and spleen, and in adult testis, kidney and lung.

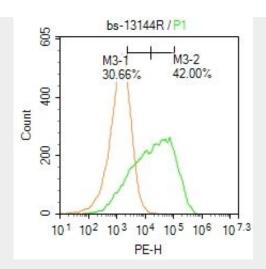
FARP1 Polyclonal Antibody - Protocols

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

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

FARP1 Polyclonal Antibody - Images





Blank control: Hela.

Primary Antibody (green line): Rabbit Anti-FARP1 antibody (bs-13144R)

Dilution: 1 µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 3 µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 20% PBST for 20 min atroom temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.