10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FHOD3 Rabbit pAb

FHOD3 Rabbit pAb
Catalog # AP55074

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q2V2M9
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	158613
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Supervillin
Epitope Specificity	1065-1300/1422
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm; cytoskeleton. Main part of the protein localizes to actin fibers and the remaining part displays filamentous staining.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FHOD3 (formin homology 2 domain containing 3), also known as FHOS2 or KIAA1695, is a 1,422 amino acid protein that localizes to both the cytoplasm and the cytoskeleton and contains one DAD domain, one FH1 domain, one FH2 domain and one GBD/FH3 domain. Expressed in brain, heart and kidney, FHOD3 interacts with intermediate filaments and functions as an Actin-organizing protein that is thought to promote the formation of stress fibers in conjunction with cellular elongation. Multiple isoforms of FHOD3 exist due to alternative splicing events. The gene encoding FHOD3 maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

Additional Information

Gene ID	80206
Other Names	FH1/FH2 domain-containing protein 3, Formactin-2, Formin homolog overexpressed in spleen 2, hFHOS2, FHOD3, FHOS2, KIAA1695
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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.

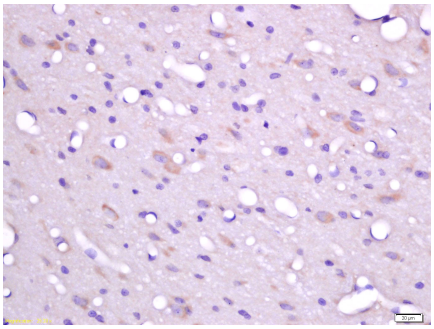
Protein Information

Name	FHOD3
Synonyms	FHOS2, KIAA1695
Function	Actin-organizing protein that may cause stress fiber formation together with cell elongation (By similarity). Isoform 4 may play a role in actin filament polymerization in cardiomyocytes.
Cellular Location	Cytoplasm, cytoskeleton. Note=Main part of the protein localizes to actin fibers and the remaining part displays filamentous staining
Tissue Location	Expressed in the heart, kidney and brain. May be down-regulated in various types of heart diseases, including idiopathic dilated, ventricular dilated, familial dilated and perinatal dilated cardiomyopathies, as well as ischemic heart disease (at protein level)

Background

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

Images



Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-FHOD3 Polyclonal Antibody, Unconjugated(AP55074) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining