



Rabbit Anti-FHOD3 antibody

SL13156R

Product Name:	FHOD3
Chinese Name:	FHOD3蛋白抗体
Alias:	FLJ22717; Formactin2; FH1/FH2 domain containing protein 3; FH1/FH2 domain-containing protein 3; Fhod3; FHOD3_HUMAN; FHOS2; FLJ22297; FLJ22717; Formactin-2; Formactin2; Formin homolog overexpressed in spleen 2; Formin homology 2 domain containing 3; hFHOS2; KIAA1695; mKIAA1695.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	159kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Supervillin:1065-1300/1422
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

Function:

Actin-organizing protein that may cause stress fiber formation together with cell elongation.

Subunit:

Interacts with nestin/NES-based interfilament (IF) (By similarity). Interacts with SQSTM1; isoform 4 threonine phosphorylation disrupts SQSTM1-binding.

Subcellular Location:

Cytoplasm; cytoskeleton. Main part of the protein localizes to actin fibers and the remaining part displays filamentous staining.

Tissue Specificity:

Expressed in the heart, kidney and brain.

Similarity:

Belongs to the formin homology family.

Contains 1 DAD (diaphanous autoregulatory) domain.

Contains 1 FH1 (formin homology 1) domain.

Contains 1 FH2 (formin homology 2) domain.

Contains 1 GBD/FH3 (Rho GTPase-binding/formin homology 3) domain.

SWISS:

Q2V2M9

Gene ID:

80206

Database links:

[Entrez Gene: 80206](#)Human

[Entrez Gene: 225288](#)Mouse

[Entrez Gene: 291731](#)Rat

[Omim: 609691](#)Human

[SwissProt: Q2V2M9](#)Human

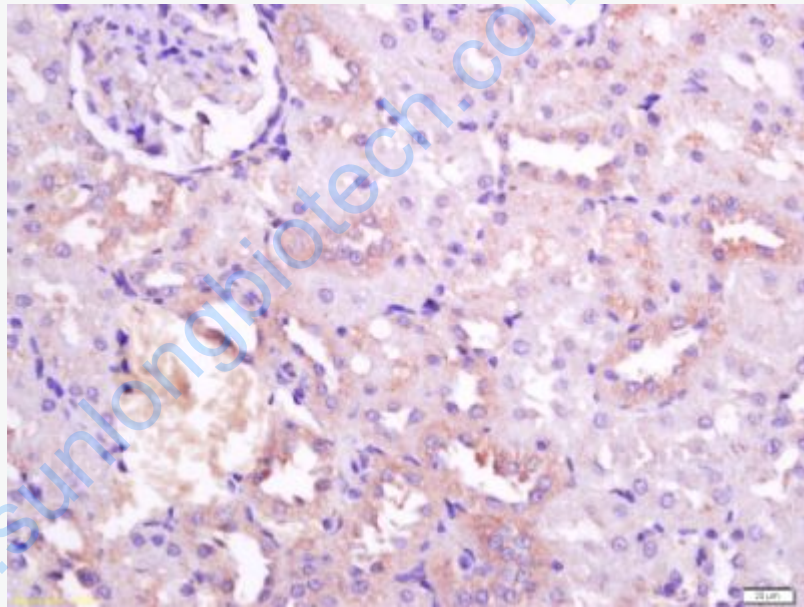
[SwissProt: Q76LL6](#)Mouse

[Unigene: 630884](#)Human

[Unigene: 329322](#)Mouse

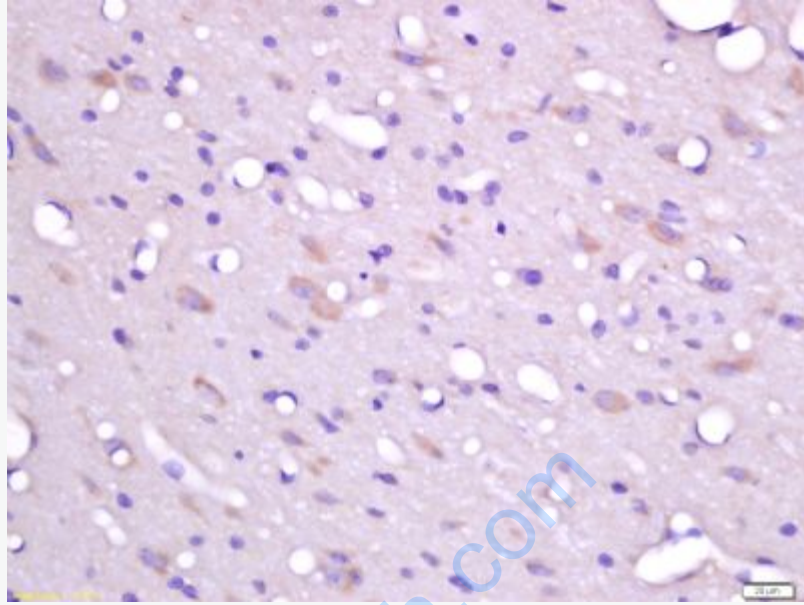
Important Note:

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

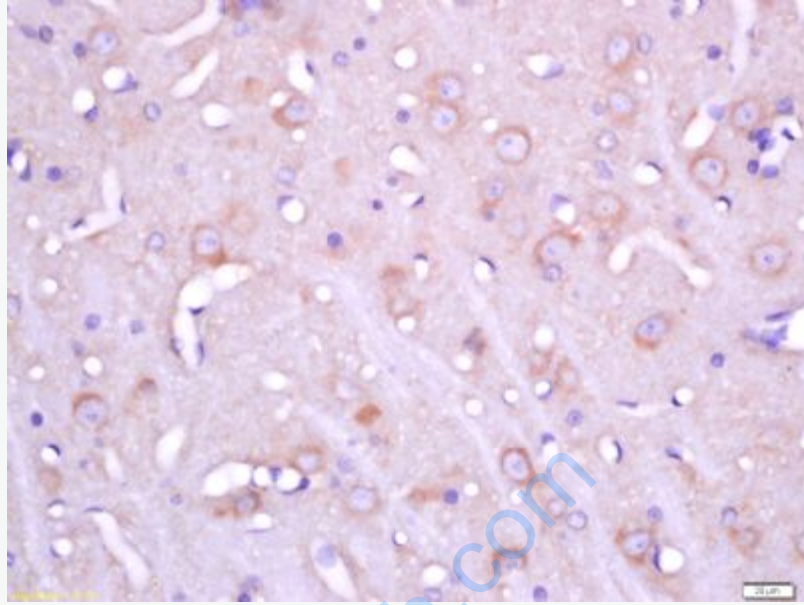


Picture:

Tissue/cell: Rat kidney 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°C for 20 min;
Incubation: Anti-FHOD3 Polyclonal Antibody, Unconjugated(SL13156R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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°C for 20 min;
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