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FAD49/SH3PXD2B Rabbit pAb

Catalog # AP98031

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	A1X283
Other Accession	A1X283
Predicted	Rat, Pig, Human, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101579
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAD49/SH3PXD2B
Epitope Specificity	361-460/911
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	Belongs to the SH3PXD2 family. Contains 1 PX (phox homology) domain. Contains 4 SH3 domains.
Post-translational modifications	Phosphorylated in SRC-transformed cells.
DISEASE	Defects in SH3PXD2B are the cause of Frank-Ter Haar syndrome (FTHS) [MIM:249420]. It is a syndrome characterized by brachycephaly, wide fontanels, prominent forehead, hypertelorism, prominent eyes, macrocornea with or without glaucoma, full cheeks, small chin, bowing of the long bones and flexion deformity of the fingers.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an adapter protein that is characterized by a PX domain and four Src homology 3 domains. The encoded protein is required for podosome formation and is involved in cell adhesion and migration of numerous cell types. Mutations in this gene are the cause of Frank-ter Haar syndrome (FTHS), and also Borrone Dermato-Cardio-Skeletal (BDCS) syndrome. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Additional Information

Gene ID	285590
Other Names	FAD49; FTHS; HOFI; KIAA1295; TKS4; TSK4; SPD2B_HUMAN; SH3PXD2B; Adapter protein HOFI; Factor for adipocyte differentiation 49; Tyrosine kinase substrate with four SH3 domains; SH3 and PX domains 2B
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	SH3PXD2B
Synonyms	FAD49, KIAA1295, TKS4
Function	Adapter protein involved in invadopodia and podosome formation and extracellular matrix degradation. Binds matrix metalloproteinases (ADAMs), NADPH oxidases (NOXs) and phosphoinositides. Acts as an organizer protein that allows NOX1- or NOX3-dependent reactive oxygen species (ROS) generation and ROS localization. Plays a role in mitotic clonal expansion during the immediate early stage of adipocyte differentiation (By similarity).
Cellular Location	Cytoplasm. Cell projection, podosome. Note=Cytoplasmic in normal cells and localizes to podosomes in SRC-transformed cells.
Tissue Location	Expressed in fibroblasts.

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