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DENND1A Rabbit pAb

Catalog # AP97794

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8TEH3
Other Accession	Q8TEH3
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110577
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DENND1A
Epitope Specificity	42-140/1009
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 dDENN domain. Contains 1 DENN domain. Contains 1 uDENN domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Clathrin (see MIM 118955)-mediated endocytosis is a major mechanism for internalization of proteins and lipids. Members of the connecdenn family, such as DENND1A, function as guanine nucleotide exchange factors (GEFs) for the early endosomal small GTPase RAB35 (MIM 604199) and bind to clathrin and clathrin adaptor protein-2 (AP2; see MIM 601024). Thus, connecdenns link RAB35 activation with the clathrin machinery (Marat and McPherson, 2010 [PubMed 20154091]).[supplied by OMIM, Nov 2010]

Additional Information

Gene ID	57706
Other Names	FAM31A; KIAA1608; DEN1A_HUMAN; DENND1A; Connecdenn 1 (Connecdenn); Protein FAM31A; DENN domain containing 1A; DENN/MADD domain containing 1A; connecdenn 1
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	DENND1A (HGNC:29324)
Function	Guanine nucleotide exchange factor (GEF) regulating clathrin- mediated endocytosis through RAB35 activation. Promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB35 into its active GTP- bound form. Regulates clathrin-mediated endocytosis of synaptic vesicles and mediates exit from early endosomes (PubMed:20154091, PubMed:20937701). Binds phosphatidylinositol-phosphates (PtdInsPs), with some preference for PtdIns(3)P (By similarity).
Cellular Location	Cytoplasmic vesicle, clathrin-coated vesicle membrane; Peripheral membrane protein. Presynaptic cell membrane. Note=Associates to membranes via lipid-binding activity. {ECO:0000250|UniProtKB:Q8K382}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.