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C9orf7 Rabbit pAb

Catalog # AP98605

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UGQ2
Other Accession	Q9UGQ2
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18470
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C9orf7
Epitope Specificity	41-130/172
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the calcium channel flower family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Chromosome 9 consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 though through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in the translocation leading to the aberrant production of BCR-ABL fusion protein often found in leukemias. The C9orf7 gene product has been provisionally designated C9orf7 pending further characterization.

Additional Information

Gene ID	11094
Other Names	C9orf7; D9S2135; FLOWER; 5930434B04Rik; mFwe; Fwe; Fwe2; RGD1311501; FLOWR_HUMAN; CACFD1; Calcium channel flower domain-containing protein 1; FLOWR_MOUSE; FLOWR_RAT; calcium channel flower domain containing 1; chromosome 9 open reading frame 7
Dilution	WB=1:500-2000,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	CACFD1
Synonyms	C9orf7
Function	Transmembrane protein which mediates synaptic endocytosis and fitness-based cell culling (PubMed:31341286, PubMed:37348560). In response to different stimulus strengths, controls two major modes of synaptic vesicle (SV) retrieval in hippocampal neurons; Clathrin- mediated endocytosis (CME) in response to mild stimulation and activity-dependent bulk endocytosis (ADBE) in response to strong stimulation (By similarity). In cytotoxic T-lymphocytes (CTLs) facilitates calcium-dependent endocytosis of cytotoxic granules at the immuno synapse (By similarity). Different isoforms work as fitness fingerprints in 'loser' and 'winner' cells and thereby mediate win/lose decisions as part of the cell competition process (PubMed:31341286).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:D4A9I3}. Golgi apparatus {ECO:0000250|UniProtKB:D4A9I3}. Vesicle {ECO:0000250|UniProtKB:Q8BG21} Note=In cytotoxic T-lymphocytes, localizes to intracellular vesicles that move to the immuno synapse (By similarity). Enriched in synaptic vesicles at the presynaptic vesicles (By similarity). Detected in the Golgi apparatus of cultured hippocampal neurons (By similarity) {ECO:0000250|UniProtKB:D4A9I3, ECO:0000250|UniProtKB:Q8BG21} [Isoform 2]: Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Detected in skin cells at low levels of expression (at protein level).

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