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C9orf41 Rabbit pAb

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Catalog # AP55949

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8N4J0
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47186
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C9orf41
Epitope Specificity	101-200/409
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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 C9orf41 gene product has been provisionally designated C9orf41 pending further characterization.

Additional Information

Gene ID	138199
Other Names	Carnosine N-methyltransferase {ECO:0000303|PubMed:26001783, ECO:0000312|HGNC:HGNC:23435}, 2.1.1.22, CARNMT1 (HGNC:23435)
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.

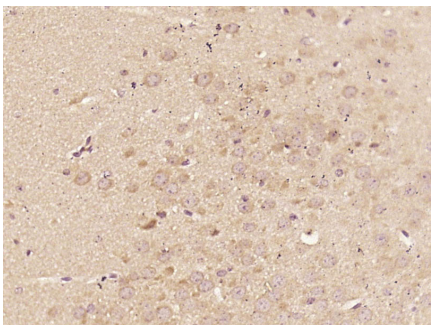
Protein Information

Name	CARNMT1 (HGNC:23435)
Function	Protein-histidine N-methyltransferase that specifically catalyzes the N1-methylation (pros-methylation) of histidine residues in a wide range of proteins. It primarily monomethylates proteins containing RNA-binding C3H1 zinc finger motifs, such as U2AF1, ZC3H15, ZC3H18, PPP1R10, PRR3 and RNF113A, thereby modulating mRNA splicing and turnover (PubMed:37612136, PubMed:39198440, PubMed:40473212). Additionally, methylates the dipeptide carnosine (beta-alanyl-L- histidine) at the N1 position to generate anserine, an abundant component of vertebrate skeletal muscle. Acts also on other L- histidine-containing di- and tripeptides, such as Gly-Gly-His, Gly-His, and homocarnosine (GABA-His) (PubMed:26001783).
Cellular Location	Cytoplasm, cytosol. Nucleus
Tissue Location	Expressed at higher level in kidney. Expressed at lower level in brain and skeletal muscle

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C9orf41) Polyclonal Antibody, Unconjugated (AP55949) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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