

C9orf64 Rabbit pAb

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Catalog # AP55955

Product Information

Application	WB
Primary Accession	Q5T6V5
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39029
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C9orf64
Epitope Specificity	161-260/341
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 C9orf64 gene product has been provisionally designated C9orf64 pending further characterization.

Additional Information

Gene ID	84267
Other Names	Queuosine 5'-phosphate N-glycosylase/hydrolase, 3.2.2.-, Q-nucleotide N-glycosylase 1 {ECO:0000312 HGNC:HGNC:28144}, Queuine salvage protein QNG1, Queuosine-nucleotide N-glycosylase/hydrolase, QNG1 (HGNC:28144), C9orf64
Dilution	WB=1:500-2000
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.

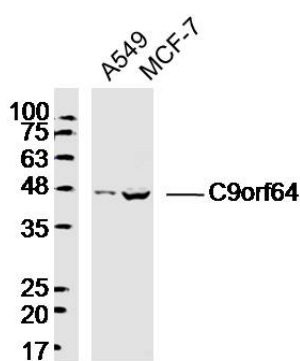
Protein Information

Name	QNG1 (HGNC:28144)
Synonyms	C9orf64
Function	Catalyzes the hydrolysis of queuosine 5'-phosphate, releasing the nucleobase queuine (q). Is required for salvage of queuine from exogenous queuosine (Q) that is imported and then converted to queuosine 5'-phosphate intracellularly. In vitro, can also catalyze the release of the q base directly from Q as substrate; however, it was shown that Q is not the biologically relevant substrate. Shows a very low activity on queuosine 3',5'-diphosphate, and cannot release q from queuosine 3'-phosphate and from the 5'-nucleotides AMP, UMP, CMP or GMP, indicating specificity for the queuine base (PubMed: 36610787). Can complement the yeast mutant SPAC589.05c, restoring Q incorporation into tRNA (PubMed: 24911101).

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Images



Sample:

A549 (Human) Cell Lysate at 40 ug

MCF-7 (Human) Cell Lysate at 40 ug

Primary: Anti-C9orf64(AP55955)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 39kD

Observed band size: 47kD

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