

C9orf114 Rabbit pAb

Catalog # AP96220

Product Information

Application	WB
Primary Accession	Q5T280
Other Accession	Q5T280
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42009
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C9orf114
Epitope Specificity	251-350/376
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 C9orf114 is a 376 amino acid protein encoded by a gene that maps to human chromosome 9q34.11. Chromosome 9 consists of about 145 million bases, represents 4% of the human genome and encodes nearly 900 genes. Thought 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.

Additional Information

Gene ID	51490
Other Names	C9orf114; CENP-32; CENP32; HSPC109; NEDGSB; SPOUT_HUMAN; SPOUT1; Centromere protein 32 (CENP-32); Kinetochore-associated protein; Methyltransferase C9orf114; Ribosomal RNA methyltransferase SPOUT1; SPOUT domain-containing methyltransferase 1; 2.1.1.-; SPOUT_MOUSE; Methyltransferase C9orf114 homolog; D2Wsu81e; SPOUT domain containing methyltransferase 1; chromosome 9 open reading frame 114; centromere protein 32
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.
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Protein Information

Name	SPOUT1 (HGNC:26933)
Synonyms	C9orf114
Function	S-adenosyl-L-methionine-dependent RNA methyltransferase (PubMed: 39671501 , PubMed: 39962046). Specifically methylates the N3 position of a uridine in 28S rRNA (PubMed: 39671501). Required for association of the centrosomes with the poles of the bipolar mitotic spindle during metaphase, ensuring proper spindle organization (PubMed: 20813266 , PubMed: 25657325 , PubMed: 39962046). Also involved in chromosome alignment (PubMed: 20813266). May promote centrosome maturation probably by recruiting A-kinase anchor protein AKAP9 to centrosomes in early mitosis (PubMed: 25657325). Binds specifically to miRNA MIR145 hairpin, regulates MIR145 expression at a postranscriptional level (PubMed: 28431233).
Cellular Location	Cytoplasm, cytoskeleton, spindle. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Associated with the outer kinetochore.

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