

C9orf84 Rabbit pAb

Catalog # AP96596

Product Information

Application	WB
Primary Accession	Q5VXU9
Other Accession	Q5VXU9
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	165202
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C9orf84
Epitope Specificity	1-100/1444
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 C9orf84 gene product has been provisionally designated C9orf84 pending further characterization. There are two isoforms of C9orf84 that are produced as a result of alternative splicing events.

Additional Information

Gene ID	158401
Other Names	C9orf84; MZIP2; SPGF75; ZIP2; ZIP2H; SHOC1_HUMAN; SHOC1; Protein ZIP2 homolog (MZIP2); 3.6.-.; shortage in chiasmata 1; chromosome 9 open reading frame 84; Zip2 homolog (S. cerevisiae)
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	SHOC1 {ECO:0000303 PubMed:29742103, ECO:0000312 HGNC:HGNC:26535}
Function	ATPase required during meiosis for the formation of crossover recombination intermediates (By similarity). Binds DNA: preferentially binds to single-stranded DNA and DNA branched structures (PubMed: 29742103). Does not show nuclease activity in vitro, but shows ATPase activity, which is stimulated by the presence of single-stranded DNA (PubMed: 29742103). Plays a key role in homologous recombination and crossing-over in meiotic prophase I in male and female germ cells (By similarity). Required for proper synaptonemal complex assembly and homologous chromosome pairing (By similarity). Required for recruitment TEX11 and MSH4 to recombination intermediates (By similarity).
Cellular Location	Chromosome {ECO:0000250 UniProtKB:A2ALV5}. Note=Localizes to meiotic chromosomes; associates with mid-stage meiotic recombination intermediates. Localization requires meiotic double-strand breaks (DSBs) recombination intermediates catalyzed by DMC1. {ECO:0000250 UniProtKB:A2ALV5}

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