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c20orf72 Rabbit pAb

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Catalog # AP55808

Product Information

Application	WB
Primary Accession	Q9BQP7
Reactivity	Human
Predicted	Rat, Dog, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39421
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human c20orf72
Epitope Specificity	201-300/344
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion.
DISEASE	Note=Defects in MGME1 are a cause of cause of progressive external ophthalmoplegia with mitochondrial DNA deletions (PEOAX). progressive external ophthalmoplegia with mitochondrial DNA deletions is characterized by external ophthalmoplegia, emaciation and respiratory failure. Muscle biopsies show mtDNA depletion and multiple mtDNA deletions.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Representing about 2% of human DNA, chromosome 20 consists of approximately 63 million bases and 600 genes. Chromosome 20 contains a region with numerous genes expressed in the epididymis, which are thought important for seminal production, and some viewed as potential targets for male contraception. The PRNP gene encoding the prion protein associated with spongiform encephalopathies, like Creutzfeldt-Jakob disease, is found on chromosome 20. Amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome are also associated with chromosome 20. The C20orf72 gene product has been provisionally designated C20orf72 pending further characterization.

Additional Information

Gene ID	92667
Other Names	Mitochondrial genome maintenance exonuclease 1 {ECO:0000255|HAMAP-Rule:MF_03030}, 3.1.-.- {ECO:0000255|HAMAP-Rule:MF_03030}, MGME1 {ECO:0000255|HAMAP-Rule:MF_03030}, C20orf72, DDK1

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	MGME1 {ECO:0000255|HAMAP-Rule:MF_03030}
Synonyms	C20orf72, DDK1
Function	Metal-dependent single-stranded DNA (ssDNA) exonuclease involved in mitochondrial genome maintenance. Has preference for 5'-3' exonuclease activity but is also capable of endonuclease activity on linear substrates. Necessary for maintenance of proper 7S DNA levels. Probably involved in mitochondrial DNA (mtDNA) repair, possibly via the processing of displaced DNA containing Okazaki fragments during RNA- primed DNA synthesis on the lagging strand or via processing of DNA flaps during long-patch base excision repair. Specifically binds 5- hydroxymethylcytosine (5hmC)-containing DNA in stem cells.
Cellular Location	Mitochondrion {ECO:0000255|HAMAP-Rule:MF_03030, ECO:0000269|PubMed:23313956, ECO:0000269|PubMed:23358826}

Background

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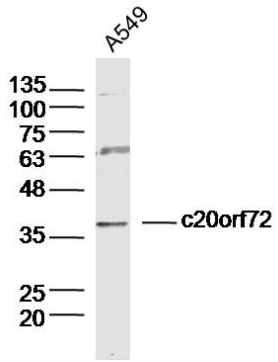
Images



Sample:
A549 Cell (Human) Lysate at 30 ug
Primary: Anti- c20orf72 (AP55808)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 39kD
Observed band size: 39kD