

C3ORF31 Rabbit pAb

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Catalog # AP55848

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q96BW9
Reactivity	Rat, Pig, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51067
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C3ORF31
Epitope Specificity	101-200/316
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 (By similarity).
SIMILARITY	Belongs to the MMP37/TAM41 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	C3orf31 (chromosome 3 open reading frame 31), also known as MGC16471 or DKFZp434E0519, is a 316 amino acid mitochondrial protein that belongs to the MMP37 family and may be involved in translocation of transit peptide-containing proteins across the mitochondrial inner membrane. C3orf24 is encoded by a gene that maps to human chromosome 3p25.2. Chromosome 3 is made up of approximately 214 million bases encoding over 1,100 genes. Notably, there is a chemokine receptor gene cluster and a variety of human cancer related loci on chromosome 3. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Key tumor suppressing genes on chromosome 3 encode apoptosis mediator RASSF1, cell migration regulator HYAL1 and angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

Additional Information

Gene ID	132001
Other Names	Phosphatidate cytidyltransferase, mitochondrial, 2.7.7.41, CDP-diacylglycerol synthase, CDP-DAG synthase, Mitochondrial translocator assembly and maintenance protein 41 homolog, TAM41, TAMM41, C3orf31
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	TAMM41
Synonyms	C3orf31
Function	Catalyzes the conversion of phosphatidic acid (PA) to CDP- diacylglycerol (CDP-DAG), an essential intermediate in the synthesis of phosphatidylglycerol, cardiolipin and phosphatidylinositol.
Cellular Location	Mitochondrion inner membrane {ECO:0000250 UniProtKB:D3ZKT0}; Peripheral membrane protein {ECO:0000250 UniProtKB:D3ZKT0}; Matrix side {ECO:0000250 UniProtKB:P53230}

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