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C3orf33 Rabbit pAb

Catalog # AP96602

Product Information

Application	WB
Primary Accession	Q6P1S2
Other Accession	Q6P1S2
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33765
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C3orf33
Epitope Specificity	151-250/294
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	C3orf33, also known as FLJ31139, is a 294 amino acid single-pass membrane protein encoded by a gene that maps to human chromosome 3q25.31. 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	285315
Other Names	AC3-33; CC033_HUMAN; C3orf33; Protein AC3-33;
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	MISO1 (HGNC:26434)
Function	Regulates mitochondrial morphology and mitochondrial DNA (mtDNA) homeostasis (PubMed:41398051). Promotes the formation of specialized mitochondrial subdomains called small MTFP1-enriched mitochondria (SMEM) (PubMed:41398051). Negatively regulates mitochondrial fusion by excluding fusion coordinator OPA1 from SMEM (PubMed:41398051). Recruits mtDNA, potentially through interaction with SSBP1, and facilitates mtDNA transport to the mitochondrial periphery (PubMed:41398051). Also recruits other proteins, including PHB1, PHB2 and MTFP1, into SMEM which promotes peripheral mitochondrial fission, facilitating lysosome-mediated clearance of damaged mtDNA via mitophagy (PubMed:41398051).
Cellular Location	[Isoform 1]: Mitochondrion inner membrane; Single-pass membrane protein. Note=Assembles into discrete subdomains known as small MTFP1-enriched mitochondria (SMEM).
Tissue Location	Highly expressed in ileocecal tissue and endometrium.

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