

# C3orf33 Rabbit pAb

Catalog # AP96602

## Product Information

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| <b>Application</b>             | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Primary Accession</b>       | <a href="#">Q6P1S2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Other Accession</b>         | <a href="#">Q6P1S2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reactivity</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Predicted</b>               | Rat, Pig, Mouse, Rabbit, Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Calculated MW</b>           | 33765                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human C3orf33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Epitope Specificity</b>     | 151-250/294                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Background Descriptions</b> | 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

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| <b>Gene ID</b>     | 285315                                                                                                                                                                                          |
| <b>Other Names</b> | AC3-33; CC033_HUMAN; C3orf33; Protein AC3-33;                                                                                                                                                   |
| <b>Dilution</b>    | WB=1:500-2000                                                                                                                                                                                   |
| <b>Storage</b>     | 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

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| <b>Name</b>              | MISO1 ( <a href="#">HGNC:26434</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>          | Regulates mitochondrial morphology and mitochondrial DNA (mtDNA) homeostasis (PubMed: <a href="#">41398051</a> ). Promotes the formation of specialized mitochondrial subdomains called small MTFP1-enriched mitochondria (SMEM) (PubMed: <a href="#">41398051</a> ). Negatively regulates mitochondrial fusion by excluding fusion coordinator OPA1 from SMEM (PubMed: <a href="#">41398051</a> ). Recruits mtDNA, potentially through interaction with SSBP1, and facilitates mtDNA transport to the mitochondrial periphery (PubMed: <a href="#">41398051</a> ). 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: <a href="#">41398051</a> ). |
| <b>Cellular Location</b> | [Isoform 1]: Mitochondrion inner membrane; Single-pass membrane protein. Note=Assembles into discrete subdomains known as small MTFP1-enriched mitochondria (SMEM).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tissue Location</b>   | Highly expressed in ileocecal tissue and endometrium.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.