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# PPTC7 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15956

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q8NI37 |
| **Other Accession** | NM_139283, NP_644812 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine |
| **Predicted** | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 32646 |

## Additional Information

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| **Gene ID** | 160760 |
| **Alias Symbol** | TA-PP2C, TAPP2C |
| **Other Names** | Protein phosphatase PTC7 homolog, 3.1.3.16, T-cell activation protein phosphatase 2C, TA-PP2C, T-cell activation protein phosphatase 2C-like, PPTC7, TAPP2C |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 &mu, l of distilled water. Final Anti-PPTC7 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | PPTC7 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

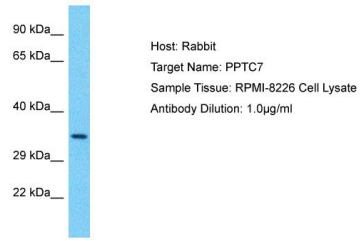
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| **Name** | PPTC7 |
| **Synonyms** | TAPP2C |
| **Function** | Protein phosphatase that plays an essential role in mitochondrial metabolism and biogenesis (PubMed:30267671). Positively regulates biosynthesis of the ubiquinone, coenzyme Q (PubMed:30267671). Dephosphorylates the ubiquinone biosynthesis protein COQ7 which is likely to lead to its activation (PubMed:30267671). Serves as a crucial sensor for mitophagy, though the underlying mechanism remains ambiguous (By similarity). May dephosphorylate BNIP3 and NIX and thereby directly |

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| | regulates mitophagy receptor function and stability (By similarity). Alternatively, promotes SCF-FBXL4-dependent ubiquitination and degradation of BNIP3 and NIX independently of its catalytic activity to restrain mitophagy (PubMed:38992176). |
| **Cellular Location** | Mitochondrion matrix |
| **Tissue Location** | Expressed in keratinocytes (at protein level). |

## References


Mao M.,et al.Genomics 83:989-999(2004).
Zhou G.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).


## Images




Host: Rabbit
Target Name: PPTC7
Sample Tissue: RPMI-8226 Whole cell lysate
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Antibody Dilution: 1.0µg/ml


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