

# PPTC7 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57739

## Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q8NI37</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32646

## Additional Information

Gene ID	160760
Other Names	Protein phosphatase PTC7 homolog, 3.1.3.16 {ECO:0000255   PROSITE-ProRule:PRU01082, ECO:0000269   PubMed:30267671}, T-cell activation protein phosphatase 2C, TA-PP2C, T-cell activation protein phosphatase 2C-like, PPTC7, TAPP2C
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	PPTC7
Synonyms	TAPP2C
Function	Protein phosphatase that plays an essential role in mitochondrial metabolism and biogenesis (PubMed: <a href="#">30267671</a> ). Positively regulates biosynthesis of the ubiquinone, coenzyme Q (PubMed: <a href="#">30267671</a> ). Dephosphorylates the ubiquinone biosynthesis protein COQ7 which is likely to lead to its activation (PubMed: <a href="#">30267671</a> ). Serves as a crucial sensor for mitophagy, though the underlying mechanism remains ambiguous (By similarity). May dephosphorylate BNIP3 and NIX and thereby directly 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: <a href="#">38992176</a> ).

<b>Cellular Location</b>	Mitochondrion matrix
<b>Tissue Location</b>	Expressed in keratinocytes (at protein level).

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