

ATP Synthase C Rabbit mAb

Catalog # AP74845

## Specification

# ATP Synthase C Rabbit mAb - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB, ICC <u>P05496</u> Human Rabbit Monoclonal Antibody 14277

## ATP Synthase C Rabbit mAb - Additional Information

Gene ID 516

Other Names ATP5MC1

**Dilution** WB~~1/500-1/1000 ICC~~N/A

Format Liquid

## ATP Synthase C Rabbit mAb - Protein Information

Name ATP5MC1 (<u>HGNC:841</u>)

#### Function

Subunit c, of the mitochondrial membrane ATP synthase complex (F(1)F(0) ATP synthase or Complex V) that produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain (Probable). ATP synthase complex consist of a soluble F(1) head domain - the catalytic core - and a membrane F(1) domain - the membrane proton channel (PubMed:<a

href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>). These two domains are linked by a central stalk rotating inside the F(1) region and a stationary peripheral stalk (PubMed:<a href="http://www.uniprot.org/citations/37244256"

target="\_blank">37244256</a>). During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation (Probable). With the subunit a (MT- ATP6), forms the proton-conducting channel in the F(0) domain, that contains two crucial half-channels (inlet and outlet) that facilitate proton movement from the mitochondrial intermembrane space (IMS) into the matrix (PubMed:<a

href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>). Protons are taken up via the inlet half- channel and released through the outlet half-channel, following a Grotthuss mechanism (PubMed:<a href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256" target="\_blank">37244256" target="\_blank">37244256</a>).



## **Cellular Location**

Mitochondrion membrane; Multi-pass membrane protein

## ATP Synthase C Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## ATP Synthase C Rabbit mAb - Images





