

## Anti-ATPO antibody

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| <b>Description</b>      | Unconjugated Rabbit polyclonal to ATPO                                                                                 |
| <b>Model</b>            | STJ190574                                                                                                              |
| <b>Host</b>             | Rabbit                                                                                                                 |
| <b>Reactivity</b>       | Human, Mouse, Rat                                                                                                      |
| <b>Applications</b>     | ELISA, WB                                                                                                              |
| <b>Immunogen</b>        | Synthesized peptide derived from human ATPO protein.                                                                   |
| <b>Immunogen Region</b> | 1-80aa                                                                                                                 |
| <b>Gene ID</b>          | <a href="#">539</a>                                                                                                    |
| <b>Gene Symbol</b>      | <a href="#">ATP5O</a>                                                                                                  |
| <b>Dilution range</b>   | WB 1:500-2000 ELISA 1:5000-20000                                                                                       |
| <b>Specificity</b>      | ATPO Polyclonal Antibody detects endogenous levels of protein.                                                         |
| <b>Purification</b>     | ATPO antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Note</b>             | For Research Use Only (RUO).                                                                                           |
| <b>Protein Name</b>     | ATP synthase subunit O, mitochondrial Oligomycin sensitivity conferral protein OSCP                                    |
| <b>Molecular Weight</b> | 23 kDa                                                                                                                 |
| <b>Clonality</b>        | Polyclonal                                                                                                             |
| <b>Conjugation</b>      | Unconjugated                                                                                                           |

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| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Formulation</b>                      | Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>                    | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage Instruction</b>              | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Database Links</b>                   | <a href="https://www.ncbi.nlm.nih.gov/condensedcode/HGNC:850OMIM:600828">HGNC:850OMIM:600828</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Alternative Names</b>                | ATP synthase subunit O, mitochondrial Oligomycin sensitivity conferral protein OSCP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Function</b>                         | Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) 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. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. 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. Part of the complex F(0) domain and the peripheral stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements. |
| <b>Cellular Localization</b>            | Mitochondrion Mitochondrion inner membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Post-translational Modifications</b> | Acetylation at Lys-162 decreases ATP production. Deacetylated by SIRT3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |