10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# ATP5G1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ATP5G1.
Catalog # AT1238a

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | P05496 |
| **Other Accession** | BC004963 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG1 Kappa |
| **Clone Names** | 1A12 |
| **Calculated MW** | 14277 |

## Additional Information

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|---|---|
| **Gene ID** | 516 |
| **Other Names** | ATP synthase F(0) complex subunit C1, mitochondrial, ATP synthase lipid-binding protein, ATP synthase proteolipid P1, ATP synthase proton-transporting mitochondrial F(0) complex subunit C1, ATPase protein 9, ATPase subunit c, ATP5G1 |
| **Target/Specificity** | ATP5G1 (AAH04963, 18 a.a. ~ 136 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Dilution** | WB~~1:500~1000 |
| **Format** | Clear, colorless solution in phosphate buffered saline, pH 7.2 . |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Precautions** | ATP5G1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Background

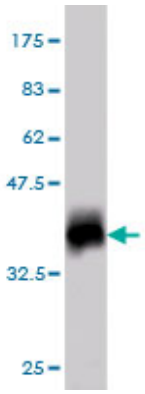
This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but

encode the identical mature protein. Alternatively spliced transcript variants encoding the same protein have been identified.

## References

1.Neuronal cell surface ATP synthase mediates synthesis of extracellular ATP and regulation of intracellular pH.Xing SL, Yan J, Yu ZH, Zhu CQ.Cell Biol Int. 2010 Jul 14. [Epub ahead of print]

## Images




Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (38.83 KDa) .