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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

ATP5E monoclonal antibody (M01), clone 2F3

Catalog # : H00000514-M01

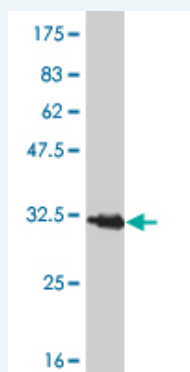
規格 : [100 ug]

[List All](#)

Specification

Product Description:	Mouse monoclonal antibody raised against a full length recombinant ATP5E.
Immunogen:	ATP5E (AAH01690, 1 a.a. ~ 51 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence:	MVAYWRQAGLSYIRYSQICAKAVRDALKTEFKANAECTSGSNVKIVKVKKE
Host:	Mouse
Reactivity:	Human
Isotype:	IgG1 Kappa

Quality Control Testing: Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (31.35 KDa) .

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

MSDS: [Download](#)

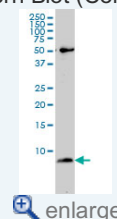
Datasheet: [Download](#)

Publication Reference

- [Assembly of human mitochondrial ATP synthase through two separate intermediates. F1F0-ATP synthase assembly involves the F1-c-ring and b6-3 complex.](#)
Fujikawa M, Sugawara K, Tanabe T, Yoshida M. FEBS Letters. 2015 Aug 20. [Epub ahead of print]
- [Assessing the actual contribution of IF1, an inhibitor of mitochondrial FoF1, to ATP homeostasis, cell growth, mitochondrial morphology and cell viability.](#)
Fujikawa M, Imamura H, Nakamura J, Yoshida M. J Biol Chem. 2012 Apr 9.
- [Mitochondrial ATP synthase deficiency due to a mutation in the ATP5E gene for the F1 epsilon subunit.](#)
Mayr JA, Havlickova V, Zimmermann F, Magler I, Kaplanova V, Jesina P, Pecinova A,

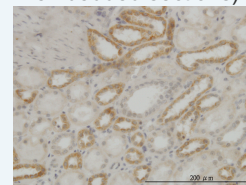
Application Image

Western Blot (Cell lysate)



Western Blot (Recombinant protein)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



ELISA

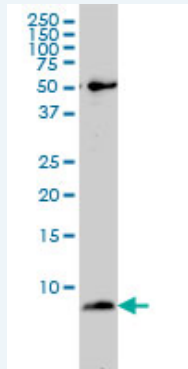
Nuskova H, Koch J, Sperl W, Houstek J. Hum Mol Genet. 2010 Jul 1. [Epub ahead of print]

4. [Knockdown of F\(1\) epsilon subunit decreases mitochondrial content of ATP synthase and leads to accumulation of subunit c.](#)

Havlickova V, Kaplanova V, Nuskova H, Drahota Z, Houstek J. Biochim Biophys Acta. 2009 Dec 21. [Epub ahead of print]

Applications

Western Blot (Cell lysate)



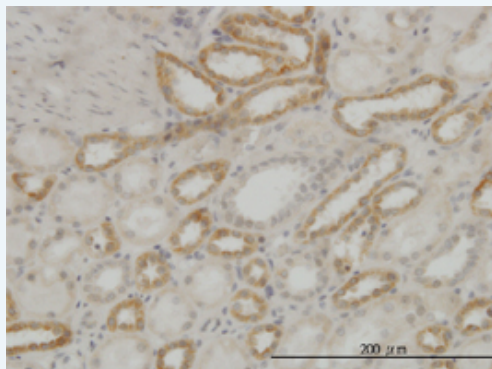
ATP5E monoclonal antibody (M01), clone 2F3 Western Blot analysis of ATP5E expression in SW-13 (Cat # L005V1).

[Protocol Download](#)

Western Blot (Recombinant protein)

[Protocol Download](#)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



[enlarge this image](#)

Immunoperoxidase of monoclonal antibody to ATP5E on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]

[Protocol Download](#)

ELISA

Gene Information

Entrez GeneID: [514](#)

GeneBank [BC001690](#)

Accession#:

Protein [AAH01690](#)

Accession#:

Gene Name: ATP5E

Gene Alias: ATPE, MGC104243

Gene Description: ATP synthase, H⁺ transporting, mitochondrial F1 complex, epsilon subunit

Omim ID: [606153](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: 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 consists of three main subunits (a, b, c). This gene encodes the epsilon subunit of the catalytic core. Two pseudogenes of this gene are located on chromosomes 4 and 13. [provided by RefSeq]

Other Designations: F(0)F(1)-ATPase,H(+)-transporting two-sector ATPase,OTTHUMP00000031404,OTTHUMP00000174442,OTTHUMP00000174443,mitochondrial ATP synthase epsilon chain,mitochondrial ATPase

Gene Pathway

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