

Datasheet for ABIN1387611
anti-ATP5B antibody (AA 425-529)



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Overview

Quantity:	100 µL
Target:	ATP5B
Binding Specificity:	AA 425-529
Reactivity:	Mouse, Rat, Pig, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ATP5B
Isotype:	IgG
Cross-Reactivity:	Mouse, Pig, Rat, Sheep
Predicted Reactivity:	Human,Dog,Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	ATP5B
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Target Details

Alternative Name:	ATP5B (ATP5B Products)
Background:	Synonyms: ATP 5B, ATP synthase H⁺ transporting mitochondrial F1 complex beta polypeptide, ATP Synthase H⁺ Transporting Mitochondrial F1 Complex Subunit Beta, ATP synthase subunit beta mitochondrial, ATP synthase subunit beta, mitochondrial, ATP5B, ATPB, ATPB_HUMAN, ATPMB, ATPSB, MGC5231, Mitochondrial ATP synthase beta subunit, Mitochondrial ATP Synthase Subunit Beta, Mitochondrial ATP synthetase beta subunit. Background: Mitochondrial ATP synthase is composed of two multi-subunit complexes that utilize an inner membrane electrochemical gradient to catalyze the synthesis of ATP during oxidative phosphorylation. The two multi-subunit complexes are designated F1 and F0, the former of which comprises the soluble catalytic core and the latter of which comprises the membrane-spanning proton channel of ATP synthase. F1 consists of five distinct subunits, designated ATP5A, ATP5B, ATP5C1, ATP5D and ATP5E, while F0 consists of ten subunits, designated ATP5H, ATP5G1, ATP5I, ATP5G2, ATP5J2, ATP5J, ATP5G3, ATP5S, ATP5F1 and ATP5L. ATP5B, also designated ATPMB, ATPSB or mitochondrial ATP synthetase, beta subunit, is a 529 amino acid protein that localizes to the mitochondrial membrane and exists as a subunit of the F0 complex. ATP5B is encoded by a nuclear gene and assembled with the other subunits encoded by both mitochondrial and nuclear genes. The ATP5B gene is activated by members of the Ets family of transcription factors, suggesting that Ets transcription factors are involved in the enhanced expression of the ATP5B gene in highly proliferating cells and in the coordinate transcription of nuclear genes for mitochondrial proteins. ATP5B mRNA levels vary among species through transcriptional control with high expression levels in heart, lower levels in skeletal muscle and the lowest levels in liver and kidney.
Pathways:	Proton Transport , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Zhang, Zhao, Zhang, Hao, Yu, Min, Li, Ma, Chen, Yi, Tang, Meng, Liu, Wang, Shen, Zhang: "Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can Be inheritable." in: Chemosphere, Vol. 194, pp. 147-157, (2018) (PubMed). Hui, Lu, Han, Zhou, Liu, Li, Jin: "Resveratrol improves mitochondrial function in the remnant kidney from 5/6 nephrectomized rats." in: Acta histochemica, Vol. 119, Issue 4, pp. 392-399, (2017) (PubMed). Zhao, Zhang, Liu, Zhang, Hao, Li, Chen, Shen, Tang, Min, Meng, Wang, Yi, Zhang: "Hydrogen Sulfide and/or Ammonia Reduces Spermatozoa Motility through AMPK/AKT Related Pathways." in: Scientific reports, Vol. 6, pp. 37884, (2016) (PubMed). Wang, Zhao, Yu, Feng, Zhang, Kou, Chu, Cui, Li, Zhang, Shen, Min: "Regulation of steroid hormones and energy status with cysteamine and its effect on spermatogenesis." in: Toxicology and applied pharmacology, Vol. 313, pp. 149-158, (2016) (PubMed).
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