bs-8600R **[Primary Antibody]**

ATP5B Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 506 **SWISS:** P06576

Target: ATP5B

Immunogen: KLH conjugated synthetic peptide derived from human ATP5B: 425-529/529.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

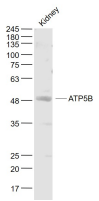
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Sheep (predicted: Human, Rat, Rabbit, Pig, Cow, Chicken, Dog, Horse)

Predicted MW.: 51 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Kidney (Mouse) Lysate at 40 ug Primary: Anti- ATP5B (bs-8600R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 49 kD

SELECTED CITATIONS

- **[IF=5.23]** Zhao, Yong, et al. "Hydrogen Sulfide and/or Ammonia Reduces Spermatozoa Motility through AMPK/AKT

Related Pathways." Scientific Reports 6 (2016): 37884. WB ;="Pig". 27883089

- **[IF=3.85]** Wang, Yandi, et al. "Regulation of steroid hormones and energy status with cysteamine and its effect on spermatogenesis." Toxicology and Applied Pharmacology 313 (2016): 149-158. WB ;="Sheep". 27815134
- **[IF=4.2]** Zhang, Weidong, et al. "Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can Be inheritable." Chemosphere (2017). IHC ;="Mouse". 29202267
- **[IF=4.114]** Yan Gao. et al. Protective effect of low-dose radiation on doxorubicin-induced brain injury in mice. ARCH BIOCHEM BIOPHYS. 2022 Oct;729:109390 WB ;Mouse. 36067878
- **[IF=3.159]** Wan Boyang. et al. Zearalenone promotes follicle development through activating SIRT1/PGC-1α signaling pathway in the ovaries of weaned gilts. J Anim Sci. 2022 Feb;: WB ;Pig(Gilt). 10.1093/jas/skac058