

## Rabbit ATPB Polyclonal Antibody | anti-ATPB antibody

ATPB Antibody

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA322937</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

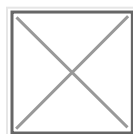
### PRODUCT SYNONYMS

ATPB; Polyclonal Antibody; ATPB Antibody; ATP 5B; ATP synthase H<sup>+</sup> transporting mitochondrial F1 complex beta polypeptide; ATP synthase subunit beta mitochondrial; ATP synthase subunit beta; mitochondrial; atp5b; ATPB\_HUMAN; ATPMB; ATPSB; Epididymis secretory protein Li 271; HEL-S-271; Mitochondrial ATP synthase beta subunit; Mitochondrial ATP Synthase Subunit Beta; Mitochondrial ATP synthetase beta subunit; anti-ATPB antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                             |
| Clonality                                      | Polyclonal                                                                                    |
| Isotype                                        | IgG                                                                                           |
| Specificity                                    | ATPB antibody detects endogenous levels of ATPB.                                              |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                | 529                                                                                           |
| Applicable Applications for anti-ATPB antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                 |
| Immunogen                                      | A synthesized peptide derived from human ATPB.                                                |
| Subcellular Location                           | Mitochondrion. Mitochondrion Inner Membrane. Peripheral Membrane Protein.                     |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Rabbit, Chicken</b>                                                    |
| Similarity                                     | Pig (100%), Bovine (100%), Horse (100%), Rabbit (100%), Chicken (100%)                        |
| Conjugation                                    | Unconjugated                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                             |

### IMAGES



#### WB (Western Blot)

Western blot analysis of extracts from various samples, using ATPB antibody. Lane 1: HepG2 treated with blocking peptide. Lane 2: HepG2; Lane 3: 293; Lane 4: mouse brain; Lane 5: rat muscle;



#### WB (Western Blot)

Western blot analysis of extracts of human heart tissue, using ATPB antibody.



IHC (Immunohistochemistry)

AAA322937 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ATPB antibody | <p>Function: Mitochondrial membrane ATP synthase (F1F0 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, F1-containing the extramembraneous catalytic core, and F0-containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F1. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.</p> <p>Subunit Structure: F-type ATPases have 2 components, CF1-the catalytic core-and CF0-the membrane proton channel. CF1 has five subunits: alpha3, beta3, gamma1, delta1, epsilon1. CF0 has three main subunits: a, b and c. Component of an ATP synthase complex composed of ATP5F1, ATP5MC1, ATP5F1E, ATP5H, ATP5I, ATP5J, ATP5J2, MT-ATP6, MT-ATP8, ATP5F1A, ATP5F1B, ATP5F1D, ATP5F1C, ATP5O, ATP5L, USMG5 and MP68. Interacts with PPIF. Interacts with BCL2L1 isoform BCL-X(L); the interaction mediates the association of BCL2L1 isoform BCL-X(L) with the mitochondrial membrane F1F0 ATP synthase and enhances neurons metabolic efficiency. Interacts with CLN5 and PPT1.</p> <p>Similarity: Belongs to the ATPase alpha/beta chains family.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 32189394                                                                                                                                          |
| NCBI GeneID                      | 506                                                                                                                                               |
| NCBI Accession #                 | NP_001677.2                                                                                                                                       |
| NCBI GenBank Nucleotide #        | NM_001686.3                                                                                                                                       |
| UniProt Accession #              | P06576; Q14283; A8K4X0                                                                                                                            |
| Molecular Weight                 | Observed: 45-57 kDa<br>Predicted: 57 kDa                                                                                                          |
| NCBI Official Full Name          | ATP synthase subunit beta, mitochondrial                                                                                                          |
| NCBI Official Synonym Full Names | ATP synthase F1 subunit beta                                                                                                                      |
| NCBI Official Symbol             | ATP5F1B                                                                                                                                           |
| NCBI Official Synonym Symbols    | ATP5B; ATPMB; ATPSB; HEL-S-271                                                                                                                    |
| NCBI Protein Information         | ATP synthase subunit beta, mitochondrial                                                                                                          |
| UniProt Protein Name             | ATP synthase subunit beta, mitochondrial                                                                                                          |
| UniProt Gene Name                | ATP5F1B                                                                                                                                           |
| UniProt Synonym Gene Names       | ATP5BImportedManual assertion inferred from database entriesHGNC:830; ATPMB; ATPSBImportedManual assertion inferred from database entriesHGNC:830 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

