

# ATPBD3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10349C

## Product Information

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|-------------------|------------------------------------------------------|
| Application       | WB, IHC-P, E                                         |
| Primary Accession | <a href="#">Q7Z7A3</a>                               |
| Other Accession   | <a href="#">Q0VC66</a> , <a href="#">NP_660275.2</a> |
| Reactivity        | Human, Mouse                                         |
| Predicted         | Bovine, Rat, Canine, Rabbit                          |
| Host              | Rabbit                                               |
| Clonality         | Polyclonal                                           |
| Isotype           | Rabbit IgG                                           |
| Clone Names       | RB27948                                              |
| Calculated MW     | 36450                                                |
| Antigen Region    | 208-236                                              |

## Additional Information

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| Gene ID            | 90353                                                                                                                                                                                                                                                                                                                                          |
| Other Names        | Cytoplasmic tRNA 2-thiolation protein 1 {ECO:0000255 HAMAP-Rule:MF_03053}, 277- {ECO:0000255 HAMAP-Rule:MF_03053}, ATP-binding domain-containing protein 3 {ECO:0000255 HAMAP-Rule:MF_03053}, Cancer-associated gene protein, Cytoplasmic tRNA adenylyltransferase 1 {ECO:0000255 HAMAP-Rule:MF_03053}, CTU1 {ECO:0000255 HAMAP-Rule:MF_03053} |
| Target/Specificity | This ATPBD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 208-236 amino acids from the Central region of human ATPBD3.                                                                                                                                                                          |
| Dilution           | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.                                                                                                                                                                                                                                                                        |
| Format             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                   |
| Storage            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                        |
| Precautions        | ATPBD3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                                                                                                                     |

## Protein Information

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| <b>Name</b>              | CTU1 {ECO:0000255   HAMAP-Rule:MF_03053}                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>          | Plays a central role in 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of tRNA(Lys), tRNA(Glu) and tRNA(Gln). Directly binds tRNAs and probably acts by catalyzing adenylation of tRNAs, an intermediate required for 2-thiolation. It is unclear whether it acts as a sulfurtransferase that transfers sulfur from thiocarboxylated URM1 onto the uridine of tRNAs at wobble position. |
| <b>Cellular Location</b> | Cytoplasm.                                                                                                                                                                                                                                                                                                                                                                                    |

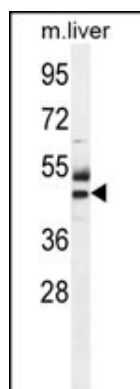
## References

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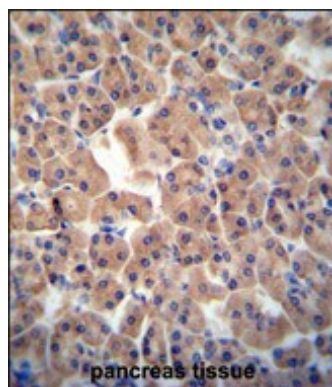
Schlieker, C.D., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18255-18260(2008)  
Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)

## Images

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ATPBD3 Antibody (Center) (Cat. #AP10349c) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the ATPBD3 antibody detected the ATPBD3 protein (arrow).



ATPBD3 antibody (Center) (Cat. #AP10349c) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATPBD3 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.