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**Product Name: ATPBD3 Rabbit Polyclonal Antibody****Catalog #: APRab07348**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	36kDa

**Antigen Information**

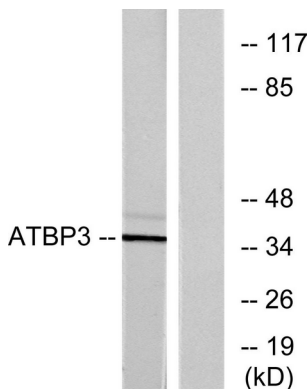
<b>Gene Name</b>	CTU1 CTU1; ATPBD3; NCS6; Cytoplasmic tRNA 2-thiolation protein 1; ATP-binding domain-containing protein 3; Cancer-associated gene protein; Cytoplasmic tRNA adenylyltransferase 1
<b>Alternative Names</b>	
<b>Gene ID</b>	90353.0
<b>SwissProt ID</b>	Q7Z7A3
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ATPBD3. AA range:291-340

## Background

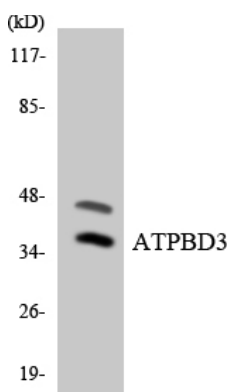
function: Plays a central role in 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of tRNA(Lys), tRNA(Glu) and tRNA(Gln). Directly binds tRNAs and probably acts by catalyzing adenylation of tRNAs, an intermediate required for 2-thiolation. It is unclear whether it acts as a sulfurtransferase that transfers sulfur from thiocarboxylated URM1 onto the uridine of tRNAs at wobble position., pathway: tRNA modification; 5-methoxycarbonylmethyl-2-thiouridine-tRNA biosynthesis., similarity: Belongs to the ttcA family. CTU1/NCS6/ATPBD3 subfamily., subunit: Component of a complex at least composed of URM1, CTU2/NCS2 and ATPBD3/NCS6. May form a heterodimer with CTU2/NCS2., function: 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., pathway: tRNA modification; 5-methoxycarbonylmethyl-2-thiouridine-tRNA biosynthesis., similarity: Belongs to the ttcA family. CTU1/NCS6/ATPBD3 subfamily., subunit: Component of a complex at least composed of URM1, CTU2/NCS2 and ATPBD3/NCS6. May form a heterodimer with CTU2/NCS2.,

## Research Area

### Image Data



Western blot analysis of lysates from LOVO cells, using ATPBD3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from 293 cells using ATPBD3 antibody.