

Product datasheet for **TA337647**

ATP5F1D Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Atp5d antibody: synthetic peptide corresponding to a region of Mouse. Synthetic peptide located within the following region: SVQLLAEAAVTLDMMLDLGAARANLEKAQSELSGAADAAARAEIQIRIEAN
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	18 kDa
Gene Name:	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, delta subunit
Database Link:	NP_001678 Entrez Gene 66043 Mouse P30049



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- Background:** 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 turnover in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F1 domain and of the central stalk which is part of the complex rotary element. Rotation of the central stalk against the surrounding $\alpha_3\beta_3$ subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.
- Synonyms:** ATP synthase; delta subunit; H⁺ transporting; mitochondrial ATP synthase; mitochondrial ATP synthase complex delta-subunit precursor; mitochondrial F1 complex
- Note:** Immunogen Sequence Homology: Human: 100%; Bovine: 100%; Dog: 93%; Pig: 93%; Rat: 93%; Horse: 93%; Mouse: 93%; Guinea pig: 93%; Zebrafish: 79%
- Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:

WB Suggested Anti-Atp5d Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control: Mouse Liver