

## Product datasheet for **AP50299PU-N**

### **ATP5F1D (C-term) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	<b>ELISA: 1/1000.</b> <b>Western blotting: 1/100 - 1/500.</b>
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 127-157 amino acids from the C-terminal region of human ATP5D
Specificity:	This antibody reacts to ATP5D.
Formulation:	PBS containing 0.09% (W/V) sodium azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, delta subunit
Database Link:	<a href="#">Entrez Gene 513 Human</a> <a href="#">P30049</a>



[View online »](#)

**Background:**

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F<sub>1</sub>, and the membrane-spanning component, F<sub>o</sub>, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the delta subunit of the catalytic core. Alternatively spliced transcript variants encoding the same isoform have been identified.

**Synonyms:**

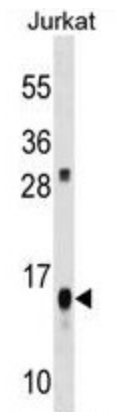
F-ATPase delta subunit

**Note:**

**Molecular Weight:** 17490 Da

**Protein Pathways:**

Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**Product images:**

ATP5D Antibody (C-term) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the ATP5D antibody detected the ATP5D protein (arrow).