

## Product datasheet for **TA323495**

### ATP5PF Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1:1000-2000, WB: 1:200-1000, IHC: 1:15-50
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Full length fusion protein
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	13 kDa
Gene Name:	ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex subunit F6
Database Link:	<a href="#">NP_001003696</a> <a href="#">Entrez Gene 11957</a> <a href="#">MouseEntrez Gene 94271</a> <a href="#">RatEntrez Gene 522</a> <a href="#">Human P18859</a>

**Background:** Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the F6 subunit of the Fo complex, required for F1 and Fo interactions. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. A pseudogene exists on chromosome Yp11.

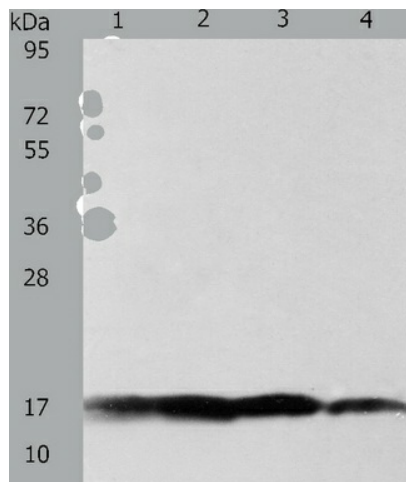


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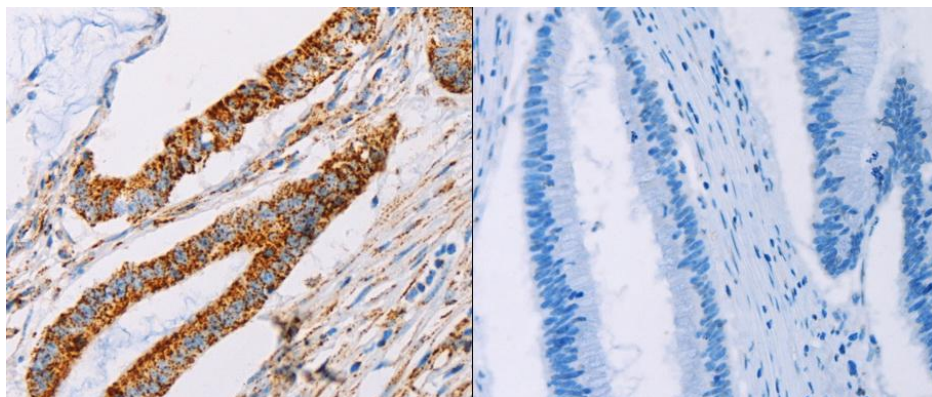
**Synonyms:** ATP5; ATP5A; ATPM; CF6; F6

**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

### Product images:



Predicted band size: 13 kDa. Positive control: Human fetal brain tissue and 293T cell, mouse intestine tissue and lovo cell lysate. Recommended dilution: 1/200-1000. (Gel: 12%SDS-PAGE Lane 1: Human fetal brain tissue lysate Lane 2: 293T cell lysate Lane 3: Mouse intestine tissue lysate Lane 4: Lovo cell lysate Lysates: 40 ug per lane Primary antibody: 1/300 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)



Predicted cell location: Cytoplasm. Positive control: Human colon cancer tissue. Recommended dilution: 1/15-50 The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer using ATP5J antibody at dilution 1/15, on the right is treated with the fusion protein. (Original magnification: x 200)