

Product datasheet for **TA370553**

ATP5PD Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Mouse skeletal muscle tissue, Mouse kidney tissue, PC-3, Jurkat, HepG2 and Hela cell lysates IHC: 50-300 Positive control: Human colorectal cancer Predicted cell location: Cytoplasm and Cell membrane
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human ATP5PD
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	18 kDa
Gene Name:	ATP synthase, H ⁺ transporting, mitochondrial Fo complex subunit D
Database Link:	Entrez Gene 10476 Human O75947



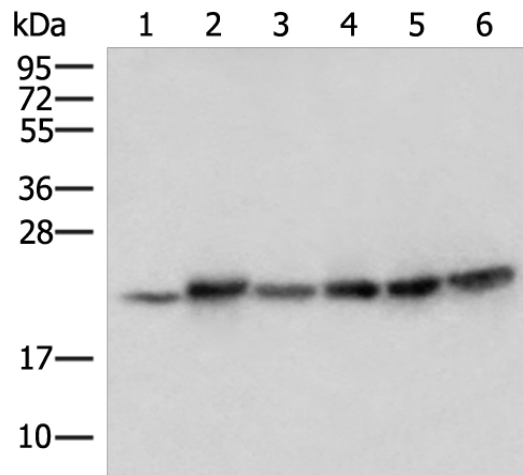
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Background:

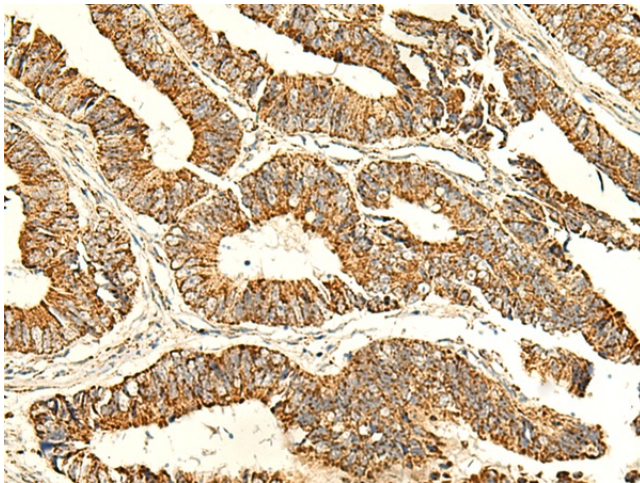
Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises 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 d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15.

Synonyms:

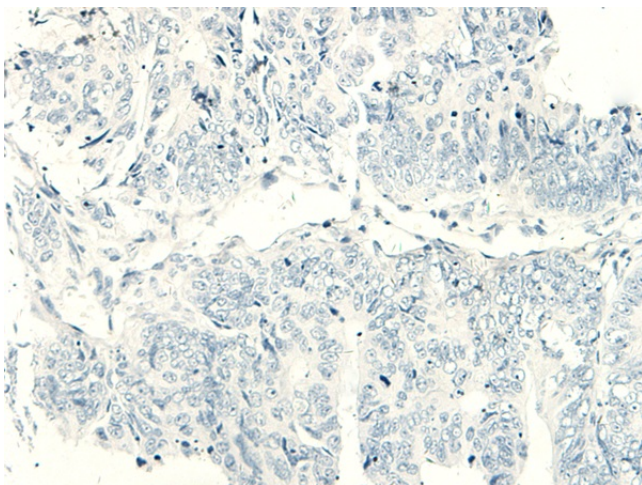
ATP5JD; ATPQ

Product images:


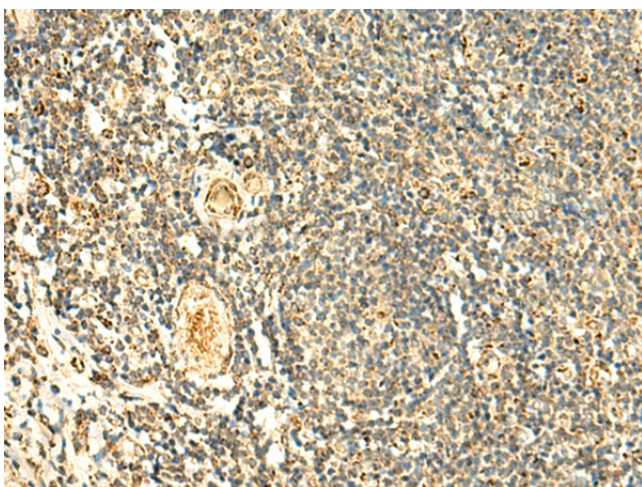
Gel: 12%SDS-PAGE
 Lysate: 40 µg
 Lane 1-6: Mouse skeletal muscle tissue
 Mouse kidney tissue
 PC-3
 Jurkat
 HepG2 and Hela cell lysates
 Primary antibody: TA370553 (ATP5PD Antibody)
 at dilution 1/300
 Secondary antibody: Goat anti rabbit IgG at
 1/8000 dilution
 Exposure time: 3 seconds



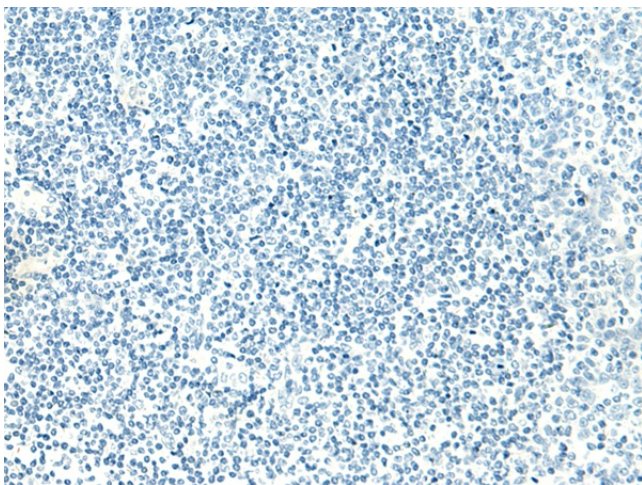
Immunohistochemistry of paraffin-embedded
 Human colorectal cancer tissue using TA370553
 (ATP5PD Antibody) at dilution 1/50 (Original
 magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using TA370553 (ATP5PD Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA370553 (ATP5PD Antibody) at dilution 1/50 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA370553 (ATP5PD Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: $\times 200$)