ELK Biotechnology

ATP5A rabbit pAb

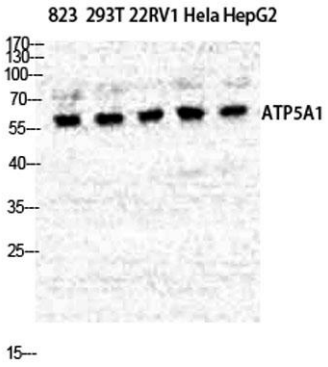
Cat No.:ES1726

For research use only

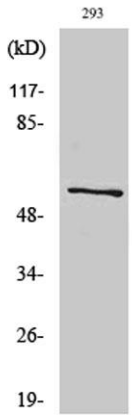
Overview

Product Name	ATP5A rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human ATP5A1. AA range:201-250
Specificity	ATP5A Polyclonal Antibody detects endogenous levels of ATP5A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	ATP synthase subunit alpha mitochondrial
Gene Name	ATP5A1
Cellular localization	Mitochondrion . Mitochondrion inner membrane ; Peripheral membrane protein ; Matrix side . Cell membrane ; Peripheral membrane protein ; Extracellular side . Colocalizes with HRG on the cell surface of T-cells (PubMed:19285951). .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	60kD
Human Gene ID	498
Human Swiss-Prot Number	P25705
Alternative Names	ATP5A1; ATP5A; ATP5AL2; ATPM; ATP synthase subunit alpha; mitochondrial
Background	This gene encodes a subunit of mitochondrial ATP

synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using 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, F1, and the membrane-spanning component, Fo, 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 alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified. Pseudogenes of thi



Western Blot analysis of various cells using ATP5A Polyclonal Antibody diluted at 1:500



Western Blot analysis of RAW264.7 cells using ATP5A Polyclonal Antibody diluted at 1:500

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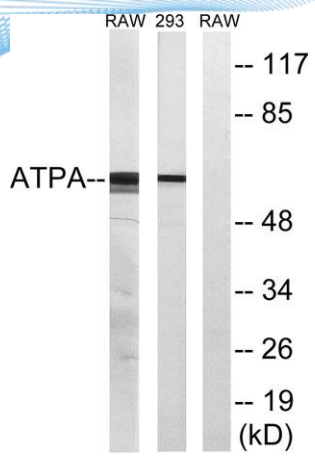
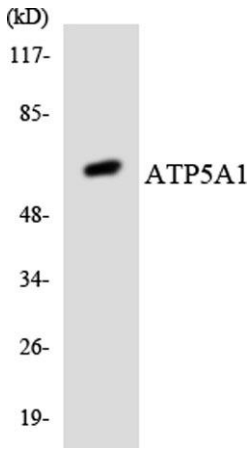


Western blot analysis of lysates from 293 and RAW264.7 cells, using ATP5A1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using ATP5A1 antibody.

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