

ATP5A Polyclonal Antibody

Catalog No :	YT0399
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	ATP5A
Fields :	>>Oxidative phosphorylation;>>Metabolic pathways;>>Thermogenesis;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy
Gene Name :	ATP5A1
Protein Name :	ATP synthase subunit alpha mitochondrial
Human Gene Id :	498
Human Swiss Prot No :	P25705
Mouse Gene Id :	11946
Mouse Swiss Prot No :	Q03265
Rat Gene Id :	65262
Rat Swiss Prot No :	P15999
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.
Source :	Polyclonal, Rabbit,IgG

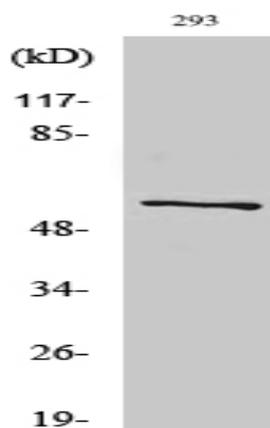
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15 °C to -25 °C/1 year(Do not lower than -25 °C)
Observed Band :	60kD
Cell Pathway :	Oxidative phosphorylation;Alzheimer's disease;Parkinson's disease;Huntington's disease;
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, F ₁ , and the membrane-spanning component, F _o , 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
Function :	function:Mitochondrial membrane ATP synthase (F ₁)F ₀ 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, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). 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. Subunit alpha does not bear the catalytic high-affinity ATP-binding sites.,
Subcellular Location :	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). .
Expression :	Fetal lung, heart, liver, gut and kidney. Expressed at higher levels in the fetal brain, retina and spinal cord. hot

Sagt::	2424
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

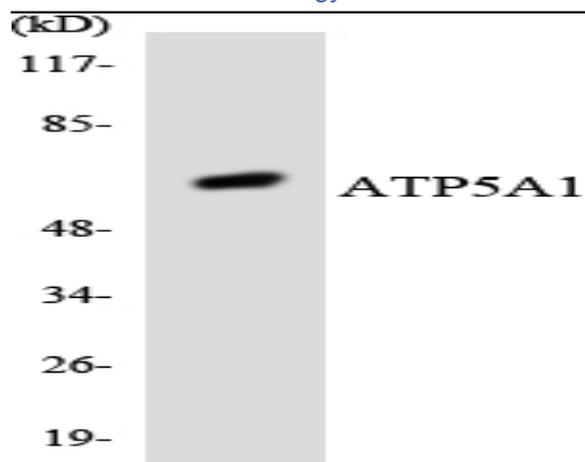
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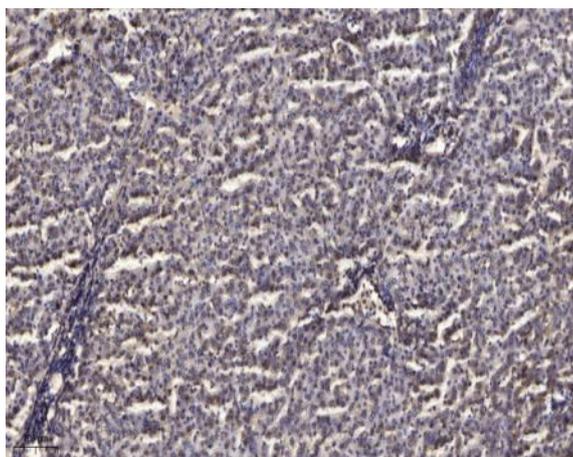
Western Blot analysis of various cells using ATP5A Polyclonal Antibody diluted at 1:500



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



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



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).