

## ATP5H Polyclonal Antibody

<b>Catalog No :</b>	YT0406
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	ATP5H
<b>Fields :</b>	>>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
<b>Gene Name :</b>	ATP5H
<b>Protein Name :</b>	ATP synthase subunit d mitochondrial
<b>Human Gene Id :</b>	10476
<b>Human Swiss Prot No :</b>	O75947
<b>Mouse Gene Id :</b>	71679
<b>Mouse Swiss Prot No :</b>	Q9DCX2
<b>Rat Gene Id :</b>	641434
<b>Rat Swiss Prot No :</b>	P31399
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human ATP5H. AA range:111-160
<b>Specificity :</b>	ATP5H Polyclonal Antibody detects endogenous levels of ATP5H protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

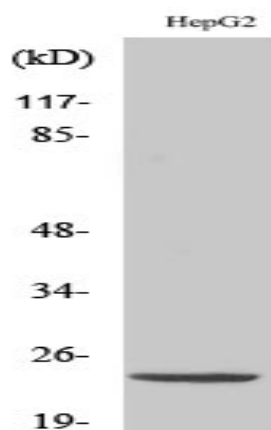
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<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	26kD
<b>Cell Pathway :</b>	Oxidative phosphorylation;Alzheimer's disease;Parkinson's disease;Huntington's disease;
<b>Background :</b>	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. [provided by RefSeq, Jun 2010],
<b>Function :</b>	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. Part of the complex F(0) domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements.,similarity:Belongs to the ATPase d subunit family.,subunit:F-type ATPases have 2 components, CF(1) - the
<b>Subcellular Location :</b>	Mitochondrion. Mitochondrion inner membrane.
<b>Expression :</b>	Bone marrow,Brain,Fetal brain,Fetal
<b>Tag :</b>	orthogonal
<b>Sort :</b>	2431

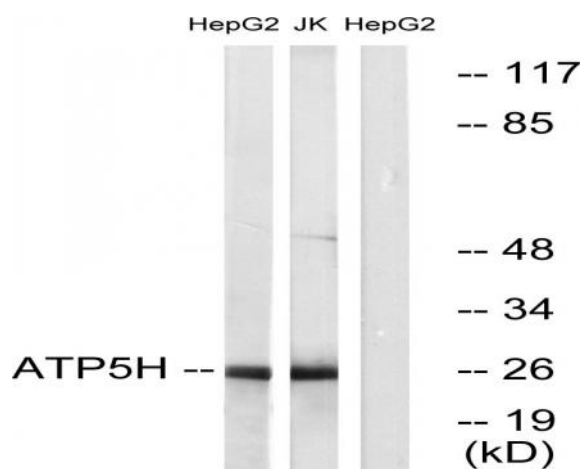
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<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

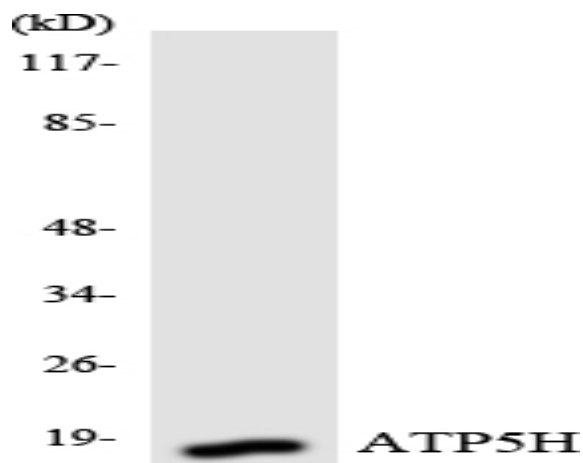
## Products Images



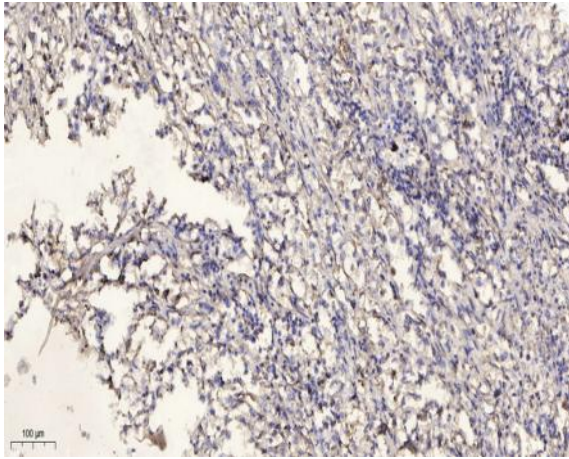
Western blot analysis of various cells using ATP5H Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from HepG2 and Jurkat cells, using ATP5H Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using ATP5H antibody.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 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).