产品名称：ATP5A Rabbit Polyclonal Antibody
产品货号：APRab07324

产品概述（Summary）

产品名称（Production Name）	ATP5A Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,IHC,ICC/IF,ELISA
种属反应性（Reactivity）	Human,Mouse,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	ATP5A1
别名（Alternative Names）	ATP5A1; ATP5A; ATP5AL2; ATPM; ATP synthase subunit alpha; mitochondrial
基因 ID（Gene ID）	498.0
蛋白 ID（SwissProt ID）	P25705.The antiserum was produced against synthesized peptide derived from human ATP5A1. AA range:201-250

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
蛋白分子量（Molecular Weight）	60kDa

研究背景（Background）

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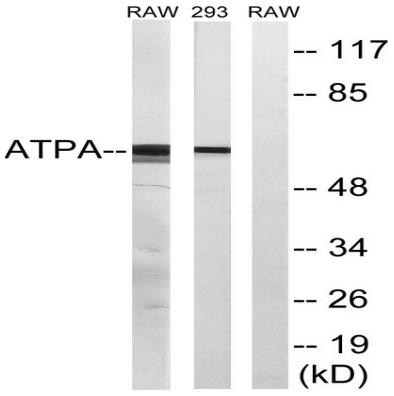
This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic 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 thifunction: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.,PTM:The N-terminus is blocked.,similarity:Belongs to the ATPase alpha/beta chains family.,subcellular location:Peripheral membrane protein.,subunit:F-type ATPases have 2 components, CF(1) - the catalytic core - and CF(0) - the membrane proton channel. CF(1) has five subunits: alpha(3), beta(3), gamma(1), delta(1), epsilon(1). CF(0) has three main subunits: a, b and c. Interacts with ATPAF2.,tissue specificity:Fetal lung, heart, liver, gut and kidney. Expressed at higher levels in the fetal brain, retina and spinal cord.,

研究领域（Research Area）

Oxidative phosphorylation;Alzheimer's disease;Parkinson's disease;Huntington's disease;

图片（Image Data）



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.

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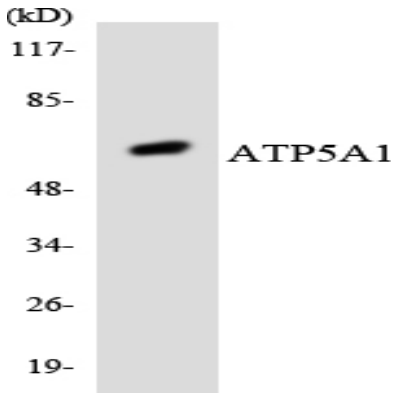
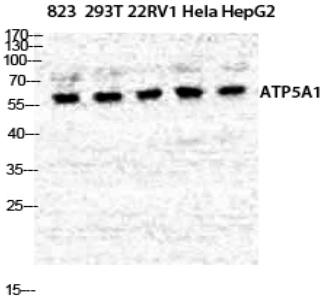
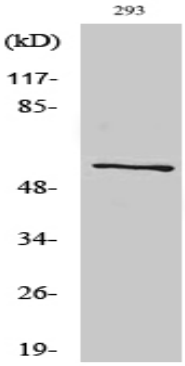


Western blot analysis of the lysates from HT-29 cells using ATP5A1 antibody.



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

注意事项（Note）

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