

anti- ATP5A1 antibody

Product Information

Catalog No.:	FNab00703
Size:	100µg
Form:	liquid
Purification:	Protein A+G purification
Purity:	≥95% as determined by SDS-PAGE
Host:	Mouse
Clonality:	monoclonal
Clone ID:	9G0
IsoType:	IgG1
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

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(By similarity).

Immunogen information

Immunogen:	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle
Synonyms:	ATP5A, ATP5AL2, ATPM
Observed MW:	50-55 kDa
Uniprot ID :	P25705

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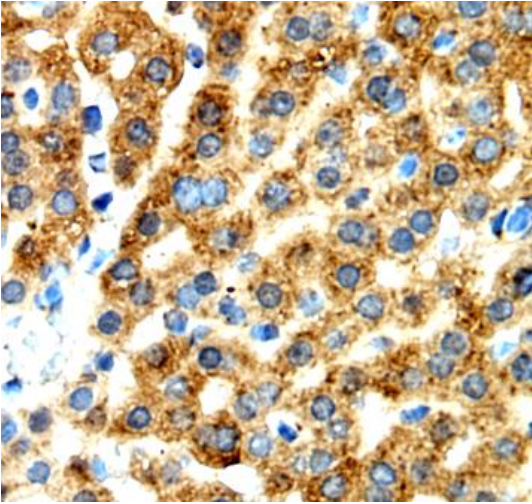
Application

Reactivity: Human, Mouse, Rat

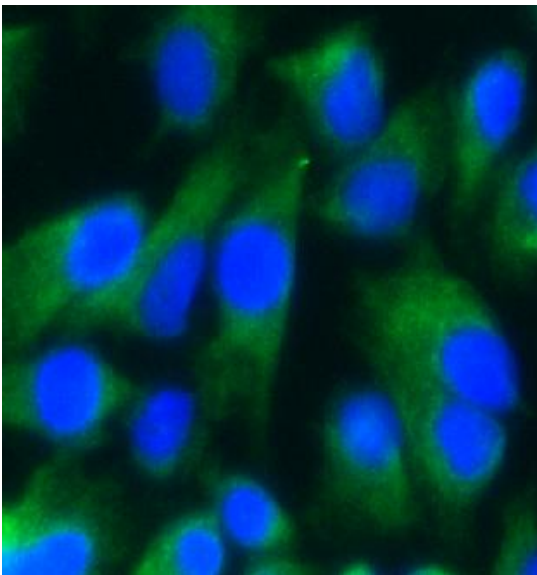
Tested Application: ELISA, IHC, IF, WB, FC

Recommended dilution: WB: 1:500-1:2000; IP: 1:500-1:1000; IHC: 1:20-1:200; IF: 1:20-1:200

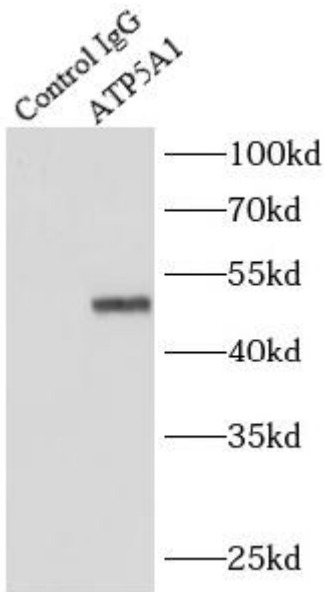
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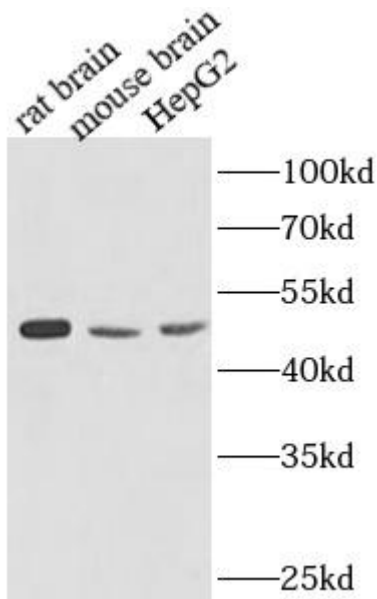
Immunohistochemistry of paraffin-embedded human liver using FNab00703(ATP5A1 antibody) at dilution of 1:50



Immunofluorescent analysis of HeLa cells using FNab00703 (ATP5A1 antibody) at dilution of 1:25



IP Result of anti-ATP5A1 (IP: FNab00703, 5ug;
Detection: FNab00703 1:500) with mouse heart
tissue lysate 4000ug.



Various lysates were subjected to SDS PAGE
followed by western blot with
FNab00703(ATP5A1 antibody) at dilution of
1:1000