For Research Use Only

ATP5A1 Monoclonal antibody

Catalog Number:66037-1-lg Featured Product

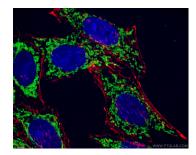
25 Publications



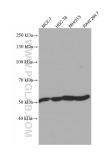
Basic Information	Catalog Number: 66037-1-lg	GenBank Accession Number: BC064562	Purification Method: Protein A purification	
	Concentration:	GenelD (NCBI):	CloneNo.:	
	1840 ug/ml	498	1B10H3	
	Source: Mouse Isotype: IgG2b Immunogen Catalog Number: AG8119	UNIPROT ID: P25705	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000 IF/ICC 1:150-1:600	
		Full Name: ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle		
		Calculated MW: 60 kDa		
		Observed MW: 50 kDa		
Applications	Tested Applications:	Positive Co	Positive Controls:	
			r cells, HeLa cells, HEK-293 cells, HepG2 T6 cells, NIH/3T3 cells, RAW 264.7 cells	
	Species Specificity:		heart tissue,	
	human, mouse, rat, monkey	IHC : huma human hea	n liver cancer tissue, human liver tissue, rt tissue	
	Cited Species: human, mouse, rat, hamster		pG2 cells, HeLa cells	
	Note-IHC: suggested antige TE buffer pH 9.0; (*) Alterno	atively, antigen		
	retrieval may be performea buffer pH 6.0	l with citrate		
Background Information	buffer pH 6.0 The ATP5A1 gene encodes the a spresence of a proton gradient acro F1F0 ATP synthase, is a multi-sub catalytic core and the F0- containi OSCP, A6L, and F6. F1 is composed defect in ATP5A1 has been linked mitochondria and anti-ATP5A1 ca antibody recognizes the endogeno MW of ATP5A1 is 60 kDa, while it	subunit of mitochondrial ATP synthase sss the membrane. The mitochondrial A unit enzyme complex consisting of two ing the membrane proton channel. FO d of subunits α , β , γ , δ , ε , and a loo l to the fatal neonatal mitochondrial er n be used as the loading control for mi ous ATP5A1 protein in lysates from var	TP synthase, also known as Complex V or o functional domains, the F1-containing th omain has 10 subunits: a, b, c, d, e, f, g,	
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other manufacturer.

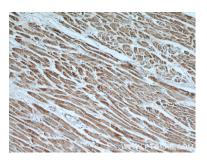
Selected Validation Data



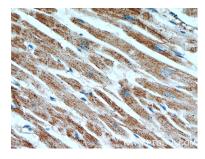
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66037-1-1g (ATPSA1 antibody) at dilution of 1:300 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Red: CL555-phalloidin staining of F-actin.



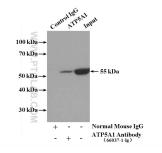
Various lysates were subjected to SDS PAGE followed by western blot with 66037-1-lg (ATP5A1 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



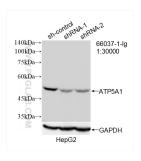
Immunohistochemical analysis of paraffinembedded human heart using 66037-1-1g(ATP5A1 antibody) at dilution of 1:50 (under 10x lens).



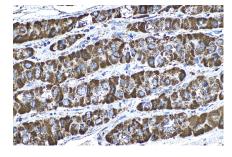
Immunohistochemical analysis of paraffinembedded human heart using 66037-1-Ig(ATP5A1 antibody) at dilution of 1:50 (under 40x lens).



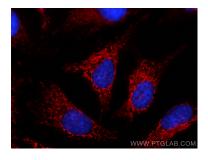
IP result of anti-ATP5A1 (IP:66037-1-Ig, 5ug; Detection:66037-1-Ig 1:500) with mouse heart tissue lysate 4000ug.



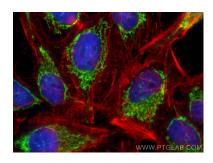
WB result of ATP5A1 antibody (66037-1-lg; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATP5A1 transfected HepG2 cells.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66037-1-Ig (ATP5A1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ATP5A1 antibody (66037-1-lg, Clone: 1B10H3) at dilution of 1:800 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ATP5A1 antibody (66037-1-lg, Clone: 1B10H3) at dilution of 1:800 and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).