For Research Use Only

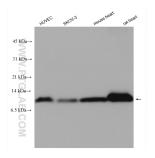
ATP5] Polyclonal antibody Catalog Number:14114-1-AP 3 Publications



Basic Information	Catalog Number: 14114-1-AP Size: 150ul, Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG5263	GenBank Accession N BC066310 GeneID (NCBI): 522 UNIPROT ID: P18859 Full Name: ATP synthase, H+ trar mitochondrial F0 con Calculated MW: 13 kDa Observed MW: 9 kDa	isporting,	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF/ICC 1:200-1:800
Applications	Tested Applications: WB, IHC, IF/ICC, IP, ELISA Cited Applications: WB Species Specificity: human, mouse, rat	Positive Controls: WB : HUVEC cells, mouse liver tissue, human heart tissue, SKOV-3 cells, mouse heart tissues, rat heart tissues IP : HEK-293 cells, IHC : human osteosarcoma tissue,		
	Cited Species: IF/ICC : HeLa cells, U-251 cells mouse, rat, rabbit IF/ICC : HeLa cells, U-251 cells Note-IHC: suggested antigen retrieval with IF/ICC : HeLa cells, U-251 cells TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 IF/ICC : HeLa cells, U-251 cells			
Background Information	ATP5J, also known as coupling factor 6 (CF6), is a soluble integral component of mitochondrial ATP synthase. Mitochondrial ATP synthase is a multi-subunit membrane-bound enzyme that catalyzes the synthesis of ATP by utilizing a proton electrochemical gradient. It consists of three domains, namely the extrinsic and intrinsic membrane domains (F1 and F0, respectively) joined by a stalk. CF6 is one of the subunits in the stalk and an essential component for energy transduction. Recently CF6 has also been reported to play a crucial role in the development of INS resistance and hypertension. CF6 is first synthesized as an immature form in the cytosol, then transported to the mitochondria by an import signal peptide and becomes an active form with the signal peptide cleaved. Western blot analysis of CF6 demonstrates a single band around 9 kDa to 12 kDa in various tissues including heart, liver, brain and HUVEC (human umbilical vein endothelial cells).			
Notable Publications	Author Pub	med ID Journ	al	Application
			Pharm Res	WB
			Endocrinol (Laus	
			eomics	WB
Storage *** 20ul sizes contain 0.1% BSA	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	% glycerol pH 7.3.		
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com		This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.	

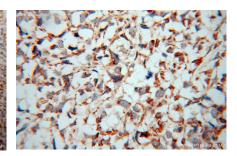
Selected Validation Data

temperature for 1.5 hours.

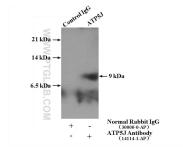


Various lysates were subjected to SDS PAGE followed by western blot with 14114-1-AP (ATP5J antibody) at dilution of 1:1000 incubated at room

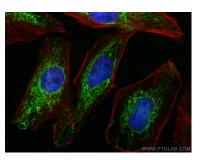
Immunohistochemical analysis of paraffinembedded human osteosarcoma using 14114-1-AP (ATP5J antibody) at dilution of 1:100 (under 10x lens).



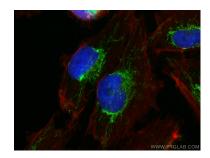
Immunohistochemical analysis of paraffinembedded human osteosarcoma using 14114-1-AP (ATP5J antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-ATP5J (IP:14114-1-AP, 4ug; Detection:14114-1-AP 1:300) with HEK-293 cells lysate 3680ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ATP5J antibody (14114-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using ATP5J antibody (14114-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).