## For Research Use Only

Multi-rAb<sup>™</sup> ATP5A1 Multi-Recombinant Antibodies | ELISA kits | Proteins

antibody Catalog Number:RMX00023

Basic Information	Catalog Number: RMX00023	GenBank Accession Nu BC064562	mber:	Purification Method: N/A Recommended Dilutions: WB 1:20000-1:100000 IHC 1:500-1:2000 IF/ICC 1:50-1:500	
	Concentration:	GenelD (NCBI):			
	500 µg/ml	498			
	Source: Rabbit	UNIPROT ID: P25705			
	Isotype: IgG	Full Name: ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle Calculated MW: 60 kDa			
		Observed MW: 50-55 kDa			
Applications	Tested Applications:		Positive Controls:		
	WB, IHC, IF/ICC, ELISA Species Specificity:		WB : HepG2 cells, Jurkat cells, mouse liver tissue, rat liver tissue		
	human, mouse, rat		IHC : mouse brain tissue,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IF/ICC : HepC	i2 cells,	
Background Informatio	F1F0 ATP synthase, is a mult catalytic core and the Fo-con A6L, and F6. F1 is composed in ATP5A1 has been linked to	The ATP5A1 gene encodes the $\alpha$ subunit of mitochondrial ATP synthase which produces ATP from ADP in the presence of a proton gradient across the membrane. The mitochondrial ATP synthase, also known as Complex V or F1F0 ATP synthase, is a multi-subunit enzyme complex consisting of two functional domains, the F1-containing th catalytic core and the Fo-containing the membrane proton channel. F0 domain has 10 subunits: a, b, c, d, e, f, g, OSC A6L, and F6. F1 is composed of subunits $\alpha$ , $\beta$ , $\gamma$ , $\delta$ , $\varepsilon$ , and a loosely attached inhibitor protein IF1. Recently defer in ATP5A1 has been linked to the fatal neonatal mitochondrial encephalopathy. ATP5A1 is localized in the mitochondria and anti-ATP5A1 can be used as the loading control for mitochondrial or Complex V proteins. This antibody recognizes the endogenous ATP5A1 protein in lysates from various cell lines and tissues. The predicted MW of ATP5A1 is 60 kDa, while it undergoes the transit peptide cleavage to become a mature form around 50-55 kDa. Several isoforms of ATP5A1 exist due to the alternative splicing.			
	antibody recognizes the end MW of ATP5A1 is 60 kDa, wh				
Storage	Storage: Store at -20°C. Stable for one Storage Buffer:	year after shipment.			
	PBS with 0.02% sodium azid	e and 50% glycerol nH7 Z			

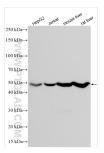
 For technical support and original validation data for this product please contact:

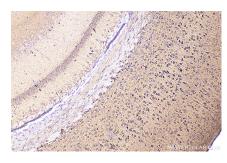
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## Selected Validation Data







Various lysates were subjected to SDS PAGE followed by western blot with RMX00023 (ATP5A1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using RMX00023 (ATP5A1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ATP5A1 antibody (RMX00023) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).