For Research Use Only

## ATP1A3 Polyclonal antibody

Catalog Number:25727-1-AP

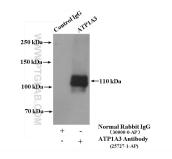


Basic Information	Catalog Number: GenBank Accession Number: 25727-1-AP BC015566		er: Purification Method: Antigen affinity purification	
	Size: 1000 µ g/ml Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG22842	GeneID (NCBI): 478	Recommended Dilutions: WB 1:2000-1:16000	
		UNIPROT ID: P13637	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
		Full Name: ATPase, Na+/K+ transportin polypeptide Calculated MW: 1013 aa, 112 kDa	IHC 1:50-1:500 IF 1:50-1:500 ng, alpha 3	
		Observed MW: 110-113 kDa		
Applications	IF-P, IHC, IP, WB, ELISAWB : mousSpecies Specificity: human, mouse, ratIP : rat braNote-IHC: suggested antigen retrieval withIHC : human		itive Controls:	
			WB : mouse brain tissue, IP : rat brain tissue,	
			: human prostate cancer tissue, mouse brain tissue,	
Background Information	ATP1A3 participates in the catalyticing hydrolysis of ATP and the exchanging of sodium and potassium ions across plasma membrane. The catalyticing activity mode is ATP + H2O + Na+(In) + K+(Out) = ADP + phosphate + Na+(Out) + K+(In). It has been published that the neurologic disorders rapid-onset dystonia-parkionsonism (RDP), alternating hemiplegia of childhood (ACH) and CAPOS syndrome (cerebellar ataxia, areflexia, pes cavus, optic atrophy and sensorineural hearing loss) are all related with the mutation of ATP1A3. There are other reports suggest that early life epilepsy and episodic apnea revealing are potentially associated with the mutation of ATP1A3 as a result of impairment of Na/K homeostasis. This antibody is generated against the C-terminal region (665-1013aa) of ATP1A3 and detects the band around 100-113 kDa in SDS-PAGE.(PMID: 30097153, 20301294, 29922587)			
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol pH 7.3.		

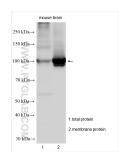
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

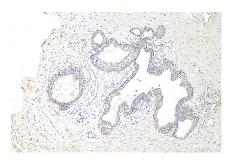
## Selected Validation Data



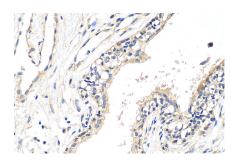
IP result of anti-ATP1A3 (IP:25727-1-AP, 4ug; Detection:25727-1-AP 1:500) with rat brain tissue lysate 4000ug.



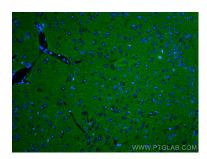
Various lysates were subjected to SDS PAGE followed by western blot with 25727-1-AP (ATP1A3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



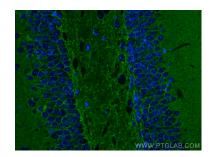
Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 25727-1-AP (ATP1A3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 25727-1-AP (ATP1A3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using ATP1A3 antibody (25727-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using ATP1A3 antibody (25727-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).