

For Research Use Only

PMCA2 Polyclonal antibody

Catalog Number: 19678-1-AP **4 Publications**



Basic Information

Catalog Number: 19678-1-AP	GenBank Accession Number: NM_001001331	Purification Method: Antigen affinity purification
Size: 260 µg/ml	GeneID (NCBI): 491	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q01814	
Isotype: IgG	Full Name: ATPase, Ca ⁺⁺ transporting, plasma membrane 2	
	Calculated MW: 139 kDa	
	Observed MW: 137 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : human brain tissue, HEK-293 cells IHC : human brain tissue,
Cited Applications: WB	
Species Specificity: human	
Cited Species: chicken, human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

ATP2B2, also named as PMCA2, belongs to the cation transport ATPase (P-type) family and type IIB subfamily. This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell. ATP2B2 catalyze the reaction: $ATP + H_2O + Ca^{2+}(Cis) = ADP + phosphate + Ca^{2+}(Trans)$.

Notable Publications

Author	Pubmed ID	Journal	Application
Jie Yang	30334551	Metalomics	WB
MD Xi	29352487	Reprod Domest Anim	WB
Jie Yang	31479920	Mol Ther Nucleic Acids	WB

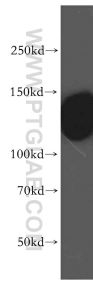
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

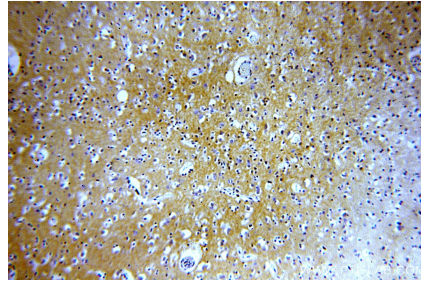
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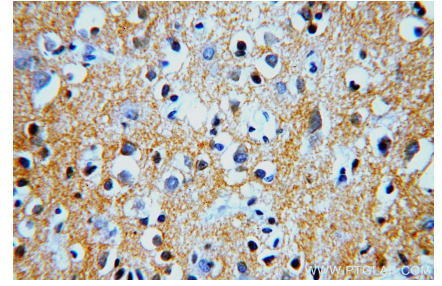
Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 19678-1-AP (PMCA2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 19678-1-AP (PMCA2 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 19678-1-AP (PMCA2 antibody) at dilution of 1:100 (under 40x lens).