

PARK9/ATP13A2 Polyclonal antibody

Catalog Number: 19141-1-AP

Basic Information

Catalog Number: 19141-1-AP	GenBank Accession Number: BC030267	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 23400	Recommended Dilutions: WB 1:200-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9NQ11	
Isotype: IgG	Full Name: ATPase type 13A2	
Immunogen Catalog Number: AG11435	Calculated MW: 1158 aa, 126 kDa	
	Observed MW: 125-130 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: mouse	WB : 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	IHC : mouse brain tissue,

Background Information

ATP13A2 belongs to the P-type superfamily of ATPases that transport inorganic cations and other substrates across cell membranes. It appears to protect cells from manganese and zinc toxicity, possibly by causing cellular efflux and/or lysosomal sequestration; and from iron toxicity, possibly by preserving lysosome integrity against iron-induced lipid peroxidation (21724849)(24334770). However, it potentiates the toxic effects of cadmium and nickel on developing neurites, and of the widely used herbicide paraquat possibly by increasing polyamine uptake. Deficiency is associated with spastic paraplegia and Kufor-Rakeb syndrome, in which there is progressive parkinsonism with dementia.

Storage

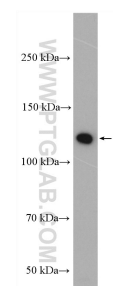
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

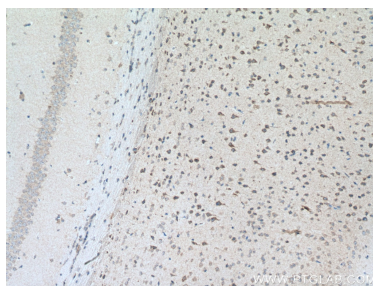
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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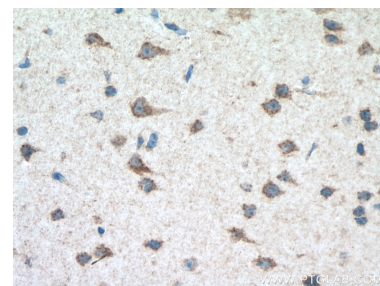
Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 19141-1-AP (PARK9/ATP13A2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19141-1-AP (PARK9/ATP13A2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19141-1-AP (PARK9/ATP13A2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).