

**ATP13A2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54602**

## Specification

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### ATP13A2 Polyclonal Antibody - Product Information

Application	IHC-P
Primary Accession	<a href="#">O9NQ11</a>
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	128794

### ATP13A2 Polyclonal Antibody - Additional Information

Gene ID 23400

#### Other Names

Polyamine-transporting ATPase 13A2, 7.6.2.-, ATP13A2 ([HGNC:30213](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=30213))

#### Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

#### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

### ATP13A2 Polyclonal Antibody - Protein Information

Name ATP13A2 ([HGNC:30213](#))

#### Function

ATPase which acts as a lysosomal polyamine exporter with high affinity for spermine (PubMed:[31996848](http://www.uniprot.org/citations/31996848)). Also stimulates cellular uptake of polyamines and protects against polyamine toxicity (PubMed:[31996848](http://www.uniprot.org/citations/31996848)). Plays a role in intracellular cation homeostasis and the maintenance of neuronal integrity (PubMed:[22186024](http://www.uniprot.org/citations/22186024)). Contributes to cellular zinc homeostasis (PubMed:[24603074](http://www.uniprot.org/citations/24603074)). Confers cellular protection against Mn(2+) and Zn(2+) toxicity and mitochondrial stress (PubMed:[26134396](http://www.uniprot.org/citations/26134396)). Required for proper lysosomal and mitochondrial maintenance (PubMed:[22296644](http://www.uniprot.org/citations/22296644), PubMed:[28137957](http://www.uniprot.org/citations/28137957)). Regulates the autophagy-lysosome pathway through the control of SYT11 expression at both transcriptional and post-translational levels (PubMed:[28137957](#))

<http://www.uniprot.org/citations/27278822> target="\_blank">27278822</a>). Facilitates recruitment of deacetylase HDAC6 to lysosomes to deacetylate CTTN, leading to actin polymerization, promotion of autophagosome-lysosome fusion and completion of autophagy (PubMed:<a href="http://www.uniprot.org/citations/30538141">http://www.uniprot.org/citations/30538141 target="\_blank">30538141</a>). Promotes secretion of exosomes as well as secretion of SCNA via exosomes (PubMed:<a href="http://www.uniprot.org/citations/24603074">http://www.uniprot.org/citations/24603074 target="\_blank">24603074</a>, PubMed:<a href="http://www.uniprot.org/citations/25392495">http://www.uniprot.org/citations/25392495 target="\_blank">25392495</a>). Plays a role in lipid homeostasis (PubMed:<a href="http://www.uniprot.org/citations/31132336">http://www.uniprot.org/citations/31132336 target="\_blank">31132336</a>).

#### Cellular Location

Lysosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Endosome, multivesicular body membrane; Multi-pass membrane protein. Cytoplasmic vesicle, autophagosome membrane; Multi-pass membrane protein

#### Tissue Location

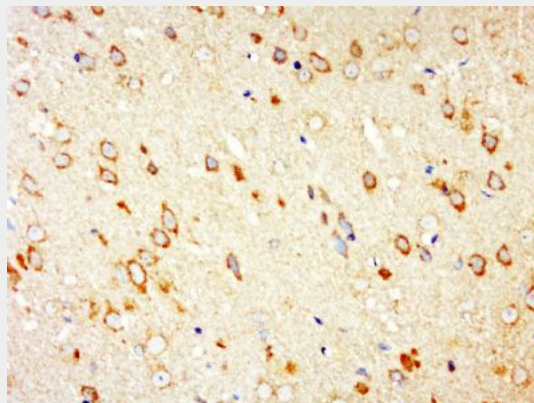
Expressed in brain; protein levels are markedly increased in brain from subjects with Parkinson disease and subjects with dementia with Lewy bodies. Detected in pyramidal neurons located throughout the cingulate cortex (at protein level). In the substantia nigra, it is found in neuromelanin-positive dopaminergic neurons (at protein level).

### ATP13A2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ATP13A2 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ATP13A2) Polyclonal Antibody, Unconjugated (bs-11708R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.