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PRODUCT DATASHEET

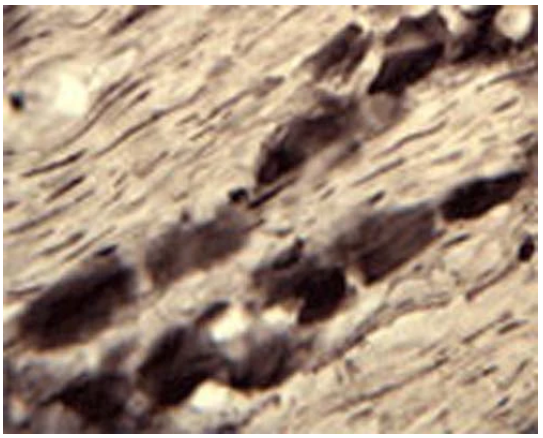
Anti-Adenosine triphosphate (ATP)- ase (ATPase) Antibody

Product Details

Available Variants	100 µL (SKU:R-072-100)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Rabbit
Format	Whole serum
Physical State	Lyophilized
Applications	IHC
Dilution Ranges	IHC: 1:500-1:2000
Species Reactivity	Human, Rat
Immunogen	A synthetic peptide (C-DDVHRSRHGLSLQDQ) as part of human ATP13A2 protein (aa: 195-209) conjugated to KLH
Specificity	Immunohistochemistry shows specific staining for ATPase. This antiserum is known to react with rat ATPase. Other species have not yet tested.
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20°C for a higher stability, and at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
UniProt ID	Q9NQ11 UniProt Summary: ATPase which acts as a lysosomal polyamine exporter with high affinity for spermine. Also stimulates cellular uptake of polyamines and protects against polyamine toxicity. Plays a role in intracellular cation homeostasis and the maintenance of neuronal integrity. Contributes to cellular zinc homeostasis. Confers cellular protection against Mn(2+) and Zn(2+) toxicity and mitochondrial stress. Required for proper lysosomal and

	mitochondrial maintenance. Regulates the autophagy-lysosome pathway through the control of SYT11 expression at both transcriptional and post-translational levels. Facilitates recruitment of deacetylase HDAC6 to lysosomes to deacetylate CTTN, leading to actin polymerization, promotion of autophagosome-lysosome fusion and completion of autophagy. Promotes secretion of exosomes as well as secretion of SCNA via exosomes. Plays a role in lipid homeostasis.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	23400

Product Images



IHC on rat trigeminal nerve (free floating cryo section) using Rabbit antibody to human ATPase (195-209): whole serum (R-072-100) at a dilution of 1: 2000.