

NIPA1 Rabbit pAb

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Catalog # AP57453

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q7RTP0
Reactivity	Human
Predicted	Rat, Dog, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34562
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NIPA1
Epitope Specificity	161-260/327
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. Early endosome. Recruited to the cell membrane in response to low extracellular magnesium.
DISEASE	Defects in NIPA1 are the cause of spastic paraplegia autosomal dominant type 6 (SPG6) [MIM:600363]. Spastic paraplegia is a degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a magnesium transporter that associates with early endosomes and the cell surface in a variety of neuronal and epithelial cells. This protein may play a role in nervous system development and maintenance. Multiple transcript variants encoding different isoforms have been found for this gene. Mutations in this gene have been associated with autosomal dominant spastic paraplegia 6. [provided by RefSeq, Nov 2008]

Additional Information

Gene ID	123606
Other Names	Magnesium transporter NIPA1, Non-imprinted in Prader-Willi/Angelman syndrome region protein 1, Spastic paraplegia 6 protein, NIPA1, SPG6
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

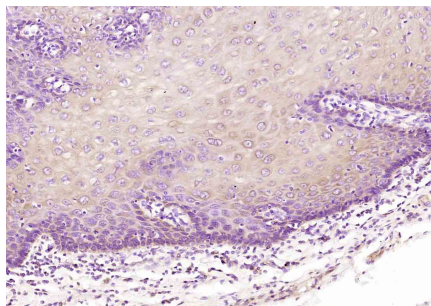
Protein Information

Name	NIPA1
Synonyms	SPG6
Function	Acts as a Mg(2+) transporter. Can also transport other divalent cations such as Fe(2+), Sr(2+), Ba(2+), Zn(2+) and Co(2+) but to a much less extent than Mg(2+) (By similarity).
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q8BHK1}; Multi-pass membrane protein. Early endosome {ECO:0000250 UniProtKB:Q8BHK1}. Note=Recruited to the cell membrane in response to low extracellular magnesium {ECO:0000250 UniProtKB:Q8BHK1}
Tissue Location	Widely expressed with highest levels in neuronal tissues.

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Images



Paraformaldehyde-fixed, paraffin embedded (human esophagus); 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 (NIPA1) Polyclonal Antibody, Unconjugated (AP57453) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.