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PJVK Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18071c

Specification

PJVK Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q0ZLH3
Other Accession	NP_001036167.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**39913**
Antigen Region	**170-197**

PJVK Antibody (Center) - Additional Information

Gene ID 494513

Other Names
Pejvakin, Autosomal recessive deafness type 59 protein, DFNB59, PJVK

Target/Specificity
This PJVK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 170-197 amino acids from the Central region of human PJVK.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PJVK Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PJVK Antibody (Center) - Protein Information

Name PJVK {ECO:0000303|PubMed:16804542, ECO:0000312|HGNC:HGNC:29502}

Function Peroxisome-associated protein required to protect auditory hair cells against

noise-induced damage. Acts by regulating noise- induced peroxisome proliferation in auditory hair cells and neurons, and promoting autophagic degradation of damaged peroxisomes (pexophagy). Noise overexposure increases reactive oxygen species (ROS) levels, causing oxidative damage to auditory hair cells and resulting in hearing loss. PJVK acts as a ROS sensor that recruits the autophagy machinery to trigger pexophagy of peroxisomes damaged by oxidative stress. In addition to pexophagy, also required to promote peroxisome proliferation in response to sound overstimulation.

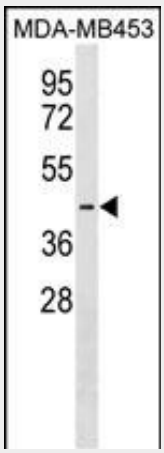
Cellular Location
Peroxisome membrane {ECO:0000250|UniProtKB:Q0ZLH2}. Cell projection, cilium {ECO:0000250|UniProtKB:Q0ZLH2}. Note=Associates with the peroxisomal membrane; it is unclear whether it is embedded or just associated with the peroxisomal membrane. Localizes to ciliary rootlet {ECO:0000250|UniProtKB:Q0ZLH2}

PJVK Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PJVK Antibody (Center) - Images



PJVK Antibody (Center) (Cat. #AP18071c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the PJVK antibody detected the PJVK protein (arrow).

PJVK Antibody (Center) - Background

The protein encoded by this gene is a member of the gasdermin family, a family which is found only in vertebrates. The encoded protein is required for the proper function of auditory pathway neurons. Defects in this gene are a cause of non-syndromic sensorineural deafness autosomal recessive type 59 (DFNB59).

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PJVK Antibody (Center) - References

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Hashemzadeh Chaleshtori, M., et al. Clin. Genet. 72(3):261-263(2007)
Collin, R.W., et al. Hum. Mutat. 28(7):718-723(2007)