

**PANK4 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58970****Specification**

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**PANK4 Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	<a href="#">Q9NVE7</a>
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85991

**PANK4 Polyclonal Antibody - Additional Information****Gene ID** 55229**Other Names**

4'-phosphopantetheine phosphatase, 3.1.3.-, Inactive pantothenic acid kinase 4, hPanK4, PANK4

**Format**

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

**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.

**PANK4 Polyclonal Antibody - Protein Information****Name** PANK4 ([HGNC:19366](#))**Function**

Phosphatase which shows a preference for 4'- phosphopantetheine and its oxidatively damaged forms (sulfonate or S- sulfonate), providing strong indirect evidence that the phosphatase activity pre-empt's damage in the coenzyme A (CoA) pathway (PubMed:<a href="http://www.uniprot.org/citations/27322068" target="\_blank">27322068</a>). Hydrolyzing excess 4'-phosphopantetheine could constitute a directed overflow mechanism to prevent its oxidation to the S-sulfonate, sulfonate, or other forms (PubMed:<a href="http://www.uniprot.org/citations/27322068" target="\_blank">27322068</a>). Hydrolyzing 4'-phosphopantetheine sulfonate or S-sulfonate would forestall their conversion to inactive forms of CoA and acyl carrier protein (PubMed:<a href="http://www.uniprot.org/citations/27322068" target="\_blank">27322068</a>). May play a role in the physiological regulation of CoA intracellular levels (Probable).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q92358}.

**Tissue Location**

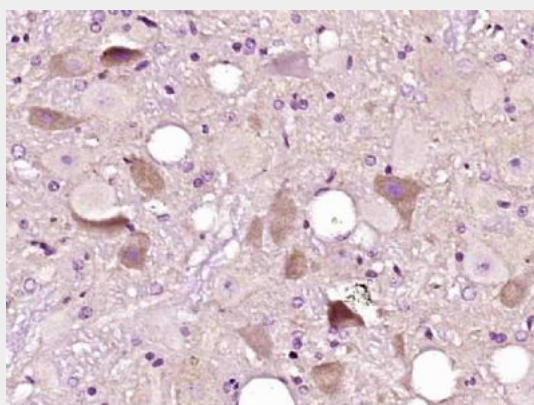
Widely expressed with high expression in the muscle (PubMed:11479594). Expressed in the retina and lens epithelium, mainly in ganglion cell layer, outer plexiform layer and retinal pigment layer (at protein level) (PubMed:30585370).

### **PANK4 Polyclonal Antibody - Protocols**

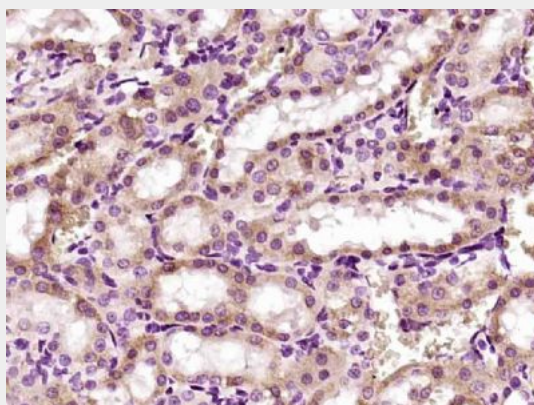
Provided below are standard protocols that you may find useful for product applications.

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

### **PANK4 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 (PANK4) Polyclonal Antibody, Unconjugated (bs-8340R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat kidney); 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

(PANK4) Polyclonal Antibody, Unconjugated (bs-8340R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.