

### PHAR4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9904b

### **Specification**

### PHAR4 Antibody (C-term) - Product Information

WB.E Application **Primary Accession Q8IZ21** Reactivity Human Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 78211 **Antigen Region** 536-565

### PHAR4 Antibody (C-term) - Additional Information

#### **Gene ID** 65979

#### **Other Names**

Phosphatase and actin regulator 4, PHACTR4

# Target/Specificity

This PHAR4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 536-565 amino acids from the C-terminal region of human PHAR4.

#### **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.

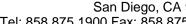
#### **Precautions**

PHAR4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## PHAR4 Antibody (C-term) - Protein Information

### Name PHACTR4

**Function** Regulator of protein phosphatase 1 (PP1) required for neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. Acts as an activator





of PP1 by interacting with PPP1CA and preventing phosphorylation of PPP1CA at 'Thr-320'. During neural tube closure, localizes to the ventral neural tube and activates PP1, leading to down-regulate cell proliferation within cranial neural tissue and the neural retina. Also acts as a regulator of migration of enteric neural crest cells (ENCCs) by activating PP1, leading to dephosphorylation and subsequent activation of cofilin (COF1 or COF2) and repression of the integrin signaling through the RHO/ROCK pathway (By similarity).

#### **Cellular Location**

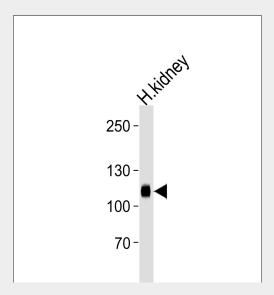
Cytoplasm. Cell projection, lamellipodium

### PHAR4 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# PHAR4 Antibody (C-term) - Images



Western blot analysis of lysate from human kidney tissue lysate, using PHAR4 Antibody (C-term)(Cat. #AP9904b). AP9904b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

### PHAR4 Antibody (C-term) - Background

This gene encodes a member of the phosphatase and actin regulator (PHACTR) family. Other PHACTR family members have been shown to inhibit protein phosphatase 1 (PP1) activity, and the homolog of this gene in the mouse has been shown to interact with actin and PP1. Multiple transcript variants encoding different isoforms have been found for this gene.

### PHAR4 Antibody (C-term) - References





Matsuoka, S., et al. Science 316(5828):1160-1166(2007) Olsen, J.V., et al. Cell 127(3):635-648(2006) Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004) Allen, P.B., et al. Proc. Natl. Acad. Sci. U.S.A. 101(18):7187-7192(2004) Sagara, J., et al. J. Biol. Chem. 278(46):45611-45619(2003)