

PHAR4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9904b**Specification**

PHAR4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q8IZ21](#)**PHAR4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 65979**Other Names**

Phosphatase and actin regulator 4, PHACTR4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PHAR4 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PHAR4 Antibody (C-term) Blocking Peptide - Images

PHAR4 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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)