

CDC42EP2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17133b**Specification**

CDC42EP2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [O14613](#)

CDC42EP2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 10435

Other Names

Cdc42 effector protein 2, Binder of Rho GTPases 1, CDC42EP2, BORG1, CEP2

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.

CDC42EP2 Antibody (C-term) Blocking Peptide - Protein Information

Name CDC42EP2

Synonyms BORG1, CEP2

Function

Probably involved in the organization of the actin cytoskeleton. May act downstream of CDC42 to induce actin filament assembly leading to cell shape changes. Induces pseudopodia formation in fibroblasts in a CDC42-dependent manner.

Cellular Location

Endomembrane system; Peripheral membrane protein. Cytoplasm, cytoskeleton

Tissue Location

Highly expressed in the heart. Weakly expressed in the pancreas and liver.

CDC42EP2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CDC42EP2 Antibody (C-term) Blocking Peptide - Images

CDC42EP2 Antibody (C-term) Blocking Peptide - Background

CDC42, a small Rho GTPase, regulates the formation of F-actin-containing structures through its interaction with the downstream effector proteins. The protein encoded by this gene is a member of the Borg family of CDC42 effector proteins. Borg family proteins contain a CRIB (Cdc42/Rac interactive-binding) domain. They bind to, and negatively regulate the function of, CDC42. Coexpression of this protein with dominant negative mutant CDC42 protein in fibroblast was found to induce pseudopodia formation, which suggested a role of this protein in actin filament assembly and cell shape control.

CDC42EP2 Antibody (C-term) Blocking Peptide - References

Xue, Y., et al. Int. J. Cancer 118(12):2965-2972(2006) Joberty, G., et al. Nat. Cell Biol. 3(10):861-866(2001) Hirsch, D.S., et al. J. Biol. Chem. 276(2):875-883(2001) Joberty, G., et al. Mol. Cell. Biol. 19(10):6585-6597(1999) Burbelo, P.D., et al. Proc. Natl. Acad. Sci. U.S.A. 96(16):9083-9088(1999)