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# 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 ofF-actin-containing structures through its interaction with thedownstream effector proteins. The protein encoded by this gene is amember of the Borg family of CDC42 effector proteins. Borg familyproteins 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 CDC42protein in fibroblast was found to induce pseudopodia formation,which suggested a role of this protein in actin filament assemblyand 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)