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CDC42EP2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17133b

Specification

CDC42EP2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O14613
Other Accession	NP_006770.1
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**22484**
Antigen Region	**133-160**

CDC42EP2 Antibody (C-term) - Additional Information

Gene ID 10435

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

Target/Specificity
This CDC42EP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 133-160 amino acids from the C-terminal region of human CDC42EP2.

Dilution
WB~~1:1000

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
CDC42EP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CDC42EP2 Antibody (C-term) - 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

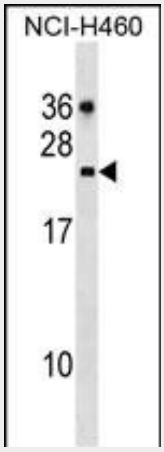
Tissue Location
Highly expressed in the heart. Weakly expressed in the pancreas and liver.

CDC42EP2 Antibody (C-term) - Protocols

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

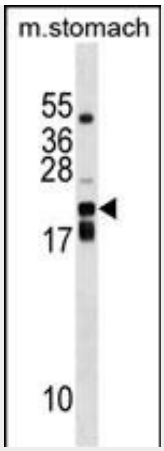
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CDC42EP2 Antibody (C-term) - Images



CDC42EP2 Antibody (C-term) (Cat. #AP17133b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the CDC42EP2 antibody detected the CDC42EP2 protein (arrow).

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CDC42EP2 Antibody (C-term) (Cat. #AP17133b) western blot analysis in mouse stomach tissue lysates (35ug/lane).This demonstrates the CDC42EP2 antibody detected the CDC42EP2 protein (arrow).

CDC42EP2 Antibody (C-term) - 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) - 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)
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