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CDC42EP2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17133b

Product Information

Application	WB, E
Primary Accession	O14613
Other Accession	NP_006770.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37300
Calculated MW	22484
Antigen Region	133-160

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

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.

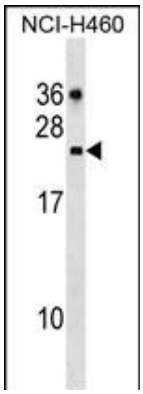
Background

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.

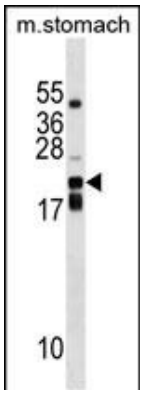
References

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)

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).



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).