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## anti-CDC42 antibody (Middle Region)

2 Images



Publication



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Overview	
Quantity:	100 μg
Target:	CDC42
Binding Specificity:	AA 121-138, Middle Region
Reactivity:	Human, Mouse, Rat, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDC42 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Cell division control protein 42 homolog(CDC42) detection.
	Tested with WB, IHC-P in Human,Bovin,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human CDC42(121-
	138aa DDPSTIEKLAKNKQKPIT), identical to the related mouse and rat sequences.
Sequence:	DDPSTIEKLA KNKQKPIT
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Cell division control protein 42 homolog(CDC42) detection.
	Tested with WB, IHC-P in Human,Bovin,Mouse,Rat.
	Gene Name: cell division cycle 42(GTP binding protein, 25 kDa)

Protein Name: Cell division control protein 42 homolog(Cdc42 homolog)

# **Product Details** Purification: Immunogen affinity purified. **Target Details** Target: CDC42 Alternative Name: CDC42 (CDC42 Products) Background: Cell division control protein 42 homolog also known as CDC42 is a protein involved in regulation of the cell cycle. In humans, CDC42 is encoded by the CDC42 gene. CDC42 is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to Saccharomyces cerevisiae Cdc 42, and is able to complement the yeast cdc42-1 mutant. The product of oncogene Dbl was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein(N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants. Synonyms: CDC 42 antibody|CDC42 antibody|CDC42\_HUMAN antibody|CDC42Hs antibody|Cell division control protein 42 homolog antibody|Cell division cycle 42(GTP binding protein 25 kDa) antibody|Cell division cycle 42 antibody|Cell division cycle 42 isoform 1 antibody|Cell division cycle 42 isoform 2 antibody|dJ224A6.1.1(cell division cycle 42(GTP-binding protein, 25kD)) antibody|dJ224A6.1.1 antibody|dJ224A6.1.2(cell division cycle 42(GTP-binding protein, 25kD)) antibody|dJ224A6.1.2 antibody|G25K antibody|G25K GTP binding protein antibody|G25K GTPbinding protein antibody|Growth regulating protein antibody|GTP binding protein 25kD antibody|GTP binding protein 25 kDa antibody|Small GTP binding protein CDC42 antibody UniProt: P60953 Pathways: MAPK Signaling, Microtubule Dynamics, RTK Signaling, WNT Signaling, TCR Signaling, EGFR Signaling Pathway, Regulation of Actin Filament Polymerization, Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Maintenance of Protein Location, Skeletal Muscle Fiber Development, Signaling Events mediated by VEGFR1 and VEGFR2, EGFR Downregulation, VEGF Signaling

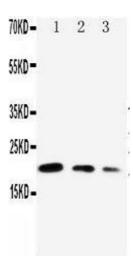
#### **Application Details**

Application Notes:

WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Bovine, Mouse, Rat IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,

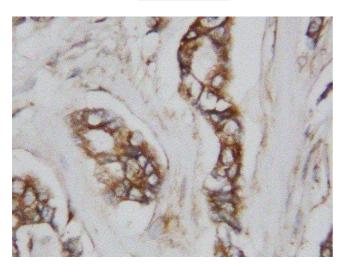
### **Application Details**

Application Details	
	Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for
	20 mins is required for the staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be
	fit for the product based on sequence similarities. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg
	Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND
	HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.
	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing
	and thawing.
Expiry Date:	12 months
Publications	
Product cited in:	Luchinat, Barbieri, Rubino, Kozyreva, Cantini, Banci: "In-cell NMR reveals potential precursor of
	toxic species from SOD1 fALS mutants." in: <b>Nature communications</b> , Vol. 5, pp. 5502, (2014) (
	PubMed).



#### **Western Blotting**

Image 1. Anti-CDC42 antibody, Western blotting Lane 1:Recombinant Human CDC42 Protein 10ng Lane 2:Recombinant Human CDC42 Protein 2.5ngLane 3:Recombinant Human CDC42 Protein 2.5ng



#### **Immunohistochemistry**

**Image 2.** Anti-CDC42 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue