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PRODUCT DATASHEET

Anti-Cdc42 Antibody

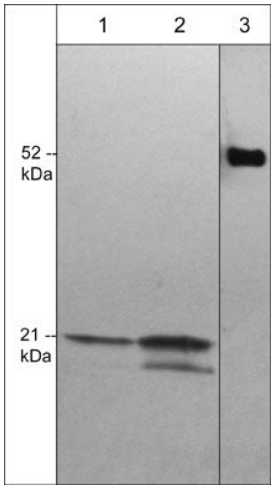
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:CM4301)
Conjugate	Unconjugated
Isotype	IgM
Clone	M430
Gene Name	CDC42
Host Species	Mouse
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:500 ICC: 1:200
Species Reactivity	Human, Mouse, Rat
Immunogen	Clone (M430) was generated from a rat recombinant Cdc42 protein. This sequence is highly conserved in human and mouse Cdc42.
Specificity	The antibody detects a 21 kDa* protein in human Jurkat cells, rat A7r5 cells, and mouse brain. The antibody also detects recombinant full length rat Cdc42 fusion protein, but does not recognize a full length human RhoA GST fusion protein.
Molecular Weight	21
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	Q8CFN2 UniProt Summary: Plasma membrane-associated small GTPase which cycles between an active GTP-bound and an inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses. Involved in epithelial cell polarization processes. Regulates the bipolar attachment of spindle microtubules to kinetochores before chromosome congression in metaphase. Regulates cell migration. In neurons, plays a role in the extension and maintenance of the formation of filopodia, thin and actin-rich surface projections. Required for DOCK10-mediated spine formation in Purkinje cells and hippocampal neurons. In podocytes, facilitates filopodia and podosomes formation upon DOCK11-activation. Upon activation by CaMKII, modulates dendritic spine structural plasticity by relaying CaMKII transient activation to synapse-specific, long-term signaling. Also plays a role in phagocytosis through organization of the F-actin cytoskeleton associated with forming phagocytic cups. Upon activation by PLEKHG4B, involved in actin cytoskeletal remodeling during epithelial cell-cell junction formation.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	64465

Product Images



Immunocytochemical labeling in paraformaldehyde fixed and NP-40 permeabilized rat A7r5 cells. The cells were labeled with mouse monoclonal Anti-Cdc42 (CM4301) in the absence (Left) or presence of full length Cdc42 recombinant protein (Right), then the antibody was detected using Goat anti-Mouse secondary antibody conjugated to DyLight® 594.

Created on 20. November 2026 | All information without guarantee