

ARG43921 anti-CDC42 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CDC42
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CDC42
Species	Human
Immunogen	Human CDC42 recombinant protein
Conjugation	Un-conjugated
Alternate Names	CDC42; Cell Division Cycle 42; CDC42Hs; G25K; Cell Division Control Protein 42 Homolog; GTP Binding Protein, 25kDa; G25K GTP-Binding Protein; DJ224A6.1.1 (Cell Division Cycle 42 (GTP-Binding Protein, 25kD)); DJ224A6.1.2 (Cell Division Cycle 42 (GTP-Binding Protein, 25kD)); Cell Division Cycle 42 (GTP Binding Protein, 25kDa); Cell Division Cycle 42 (GTP-Binding Protein, 25kD); Small GTP Binding Protein CDC42; Growth-Regulating Protein; EC 3.6.5.2; TKS

Application Instructions

Application table	Application	Dilution
	ELISA	0.1-0.5 µg/ml
	FACS	1-3 µg/1x10 ⁶ cells
	ICC/IF	5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

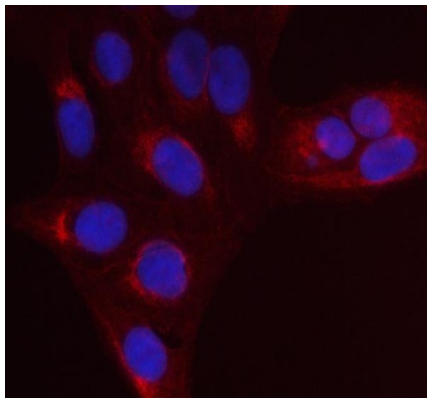
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

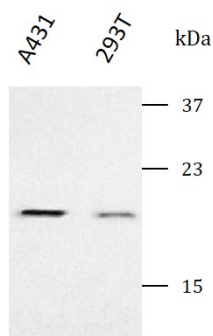
Gene Symbol	CDC42
Gene Full Name	Cell Division Cycle 42
Background	The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to <i>Saccharomyces cerevisiae</i> Cdc 42, and is able to complement the yeast <i>cdc42-1</i> 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. Pseudogenes of this gene have been identified on chromosomes 3, 4, 5, 7, 8 and 20.
Function	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.
Calculated Mw	21 kDa
PTM	Glycoprotein, Lipoprotein, Methylation, Phosphoprotein, Prenylation
Cellular Localization	Cell membrane, Cell projection, Cytoplasm, Cytoskeleton, Membrane

Images



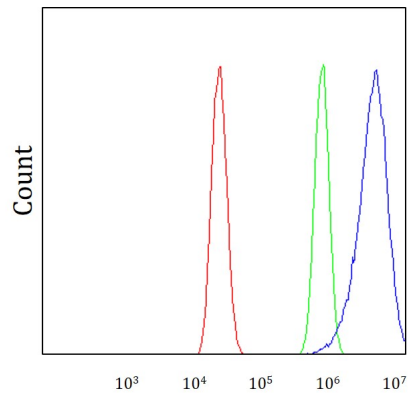
ARG43921 anti-CDC42 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG43921 anti-CDC42 antibody at 5 µg/ml dilution.



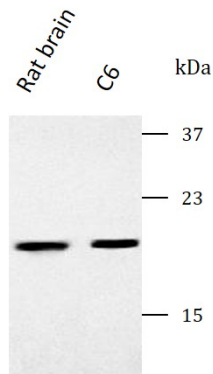
ARG43921 anti-CDC42 antibody WB image

Western blot: A431 and 293T with ARG43921 anti-CDC42 antibody at 0.5 µg/mL dilution.



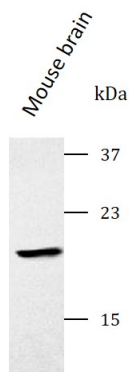
ARG43921 anti-CDC42 antibody FACS image

Flow Cytometry: MCF-7 cells stained with ARG43921 anti-CDC42 antibody (blue) at $1\text{ }\mu\text{g}/1\times 10^6$ cells dilution.



ARG43921 anti-CDC42 antibody WB image

Western blot: Rat brain and C6 with ARG43921 anti-CDC42 antibody at $0.5\text{ }\mu\text{g}/\text{mL}$ dilution.



ARG43921 anti-CDC42 antibody WB image

Western blot: Mouse brain with ARG43921 anti-CDC42 antibody at $0.5\text{ }\mu\text{g}/\text{mL}$ dilution.