

ARG56973 anti-Cofilin antibody [1C1]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1C1] recognizes Cofilin
Tested Reactivity	Hu
Tested Application	ELISA, WB
Host	Mouse
Clonality	Monoclonal
Clone	1C1
Isotype	IgG1, kappa
Target Name	Cofilin
Species	Human
Immunogen	Recombinant fragment around aa. 1-166 of Human Cofilin.
Conjugation	Un-conjugated
Alternate Names	CFL; 18 kDa phosphoprotein; Cofilin, non-muscle isoform; HEL-S-15; p18; cofilin; Cofilin-1

Application Instructions

Application table	Application	Dilution
	ELISA	1:1000
	WB	1:1000 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

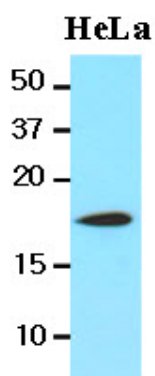
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 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. 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

Database links	GeneID: 1072 Human Swiss-port # P23528 Human
Gene Symbol	CFL1
Gene Full Name	cofilin 1 (non-muscle)
Background	The protein encoded by this gene can polymerize and depolymerize F-actin and G-actin in a pH-dependent manner. Increased phosphorylation of this protein by LIM kinase aids in Rho-induced reorganization of the actin cytoskeleton. Cofilin is a widely distributed intracellular actin-modulating protein that binds and depolymerizes filamentous F-actin and inhibits the polymerization of monomeric G-actin in a pH-dependent manner. It is involved in the translocation of actin-cofilin complex from cytoplasm to nucleus.[supplied by OMIM, Apr 2004]
Function	Binds to F-actin and exhibits pH-sensitive F-actin depolymerizing activity. Regulates actin cytoskeleton dynamics. Important for normal progress through mitosis and normal cytokinesis. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required for the up-regulation of atypical chemokine receptor ACKR2 from endosomal compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation. [UniProt]
Calculated Mw	19 kDa
PTM	Inactivated by phosphorylation on Ser-3. Phosphorylated on Ser-3 in resting cells (By similarity). Dephosphorylated by PDXP/chronophin; this restores its activity in promoting actin filament depolymerization. The phosphorylation of Ser-24 may prevent recognition of the nuclear localization signal (By similarity). Phosphorylated via a ARRB1-RAC1-LIMK1-PAK1 cascade upon active ligand stimulation of atypical chemokine receptor ACKR2.

Images



ARG56973 anti-Cofilin antibody [1C1] WB image

Western blot: 20 µg of HeLa stained with ARG56973 anti-Cofilin antibody [1C1] at 1:1000.