Anti-Cofilin/CFL1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M016231

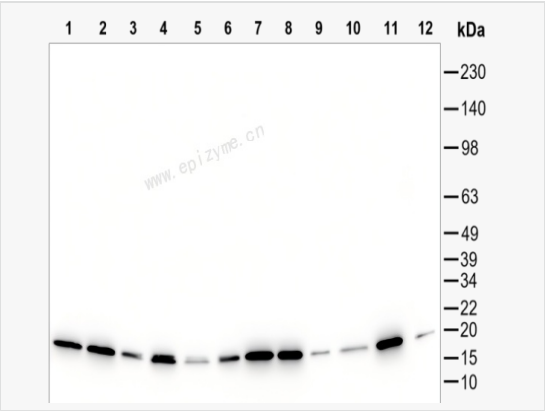
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	32R49B99
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant full length protein corresponding to Human cofilin
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Cofilin/CFL1 Mouse mAb [32R49B99] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	18 kDa phosphoprotein; CFL1; CFL; COF1_HUMAN; Cofilin 1; Cofilin 1 non muscle; Cofilin; Cofilin non muscle isoform; Cofilin-1; epididymis secretory protein Li 15; HEL-S-15; non-muscle isoform; p18.
Calculated MW	Calculated MW: 18 kDa; Observed MW: 19 kDa
Uniprot ID	P23528
Gene ID	1072
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]
Cellular Location	Nucleus matrix; Cytoplasm, cytoskeleton; Cell projection, ruffle membrane (peripheral membrane protein); Cell projection, lamellipodium membrane (peripheral membrane protein); Cell projection, lamellipodium; Cell projection, growth cone; Cell projection, axon. Note: Colocalizes with the actin cytoskeleton in membrane ruffles and lamellipodia; detected at the cleavage furrow and contractile ring during cytokinesis; almost completely in nucleus in cells exposed to heat shock or 10% DMSO.
Tissue Location	Widely distributed in various tissues. Induction: up-regulated in response to enterovirus 71 (EV71) infection (at protein level). (HPA: Low tissue specificity)

Validation Images



Western Blot - Anti-Cofilin/CFL1 Mouse mAb [32R49B99]
All lanes: M016231 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Ball-1 (Human B lymphocyte acute leukemia cell) whole cell lysates
Lane 3: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 4: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 6: 293T (Human embryonic kidney cell) whole cell lysates
Lane 7: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 8: Mouse brain whole tissue lysates
Lane 9: Mouse liver whole tissue lysates
Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 11: Rat brain whole tissue lysates
Lane 12: Rat liver whole tissue lysates
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Lysates/proteins at 10 µg per lane.
Predicted band size: 18 kDa
Observed band size: 19 kDa
Developed using the ECL technique (Cat. No. SQ201).