

Cofilin 1 Control Lysate

Cat. # CL7311

Size 100 μ l

Lysate Preparation:

Members of the ADF/cofilin (AC) family are actin-severing proteins that regulate actin remodeling during cell migration, cytokinesis, axon development, and immune cell activation. In mammals, there are three members of the AC family, muscle-specific cofilin (cofilin 2), non-muscle cofilin (cofilin 1), and ADF. In humans, cofilin 1 and ADF have 72% identity, with the major amino acid differences found in the C-terminal region. Activation of cofilin kinases, LIMK1 or LIMK2, leads to phosphorylation of cofilin at serine 3. This phosphorylation disrupts cofilin binding to actin *in vitro* and *in vivo*.

For preparation of Ser-3 phosphorylated Cofilin, purified human Cofilin 1 was phosphorylated *in vitro* with His-tagged mouse recombinant LIM Kinase 1 for 30 min. at 37°C (Cat. #CL7321). For control lysate, the recombinant Cofilin 1 protein was exposed to buffer only (Cat.#CL7311). The phosphorylated product is detected by anti-Cofilin (Ser-3; Cat.#CP1151), while both the control and phosphorylated recombinant cofilin 1 are detected by anti-Cofilin (N-terminus; Cat.#CP1131).

Buffer and Storage:

Cofilin 1 Control Lysate is supplied at a concentration of 10 ng/ μ l in electrophoresis sample buffer (62.5 mM Tris pH 6.8, 2% SDS, 5% glycerol, 0.003% bromophenol blue, 0.9% β -mercaptoethanol). Store at -20°C . Do not boil or dilute. Stable for 1 year.

Applications:

WB 10 μ l/lane

End user should determine optimal quantity for their particular applications and experiments.

Related Products:

CL7321 Cofilin 1 + LIMK1 Lysate
CP1131 Cofilin 1 (N-terminus) Rabbit Polyclonal
CP1151 Cofilin 1 (Ser-3), phospho-specific Rabbit Polyclonal
LP1831 LIMK1 (C-terminus) Rabbit Polyclonal
LP1891 LIMK1 (Thr-508), phospho-specific [Conserved site] Rabbit

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