

Product Data Sheet: Phospho-CFL1-S3 pAb

Cat. No: ABP-0178

Conjugate: Unconjugated

Size: 100 ug
Clone: Poly
Concentration: 1mg/ml
Host: Rb

Isotype: IgG

Reactivity: Human, Mouse, Rat

Applications: Western Blotting 1:1000 Immunohistochemistry: 1:50-1:100

Immunofluorescence: 1:100-1:200

Molecular Weight: 19 kDa

Polyclonal antibodies are produced by immunizing animals with a synthetic phospho-peptide (KLH-coupled) corresponding to residues surrounding Ser3 of

human cofilin. Antibodies are purified by protein A and peptide affinity

chromatography

Cofilin and ADF (actin-depolymerization factor) are members of a family of essential conserved small actin-binding proteins that play pivotal roles in cytokinesis, endocytosis, embryonic development, stress response and tissue regeneration (1). In response to stimuli, cofilin promotes the regeneration of actin filaments by severing preexisting filaments (2). The severing activity of cofilin is inhibited by LIMK or TESK phosphorylation at Ser3 of cofilin (3-5). Phosphorylation

at Ser3 also regulates cofilin translocation from the nucleus to the cytoplasm (6).Phospho-Cofilin (Ser3) Antibody detects endogenous levels of cofilin only

when phosphory¬lated at Ser3. The antibody may cross-react with

phosphory¬lated cofilin 2, the muscle isoform.

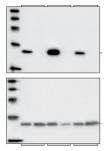
Form: liquid

Background:

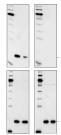
Buffer: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and

50% glycerol.

Storage: Store at -20°C. Do not aliquot the antibody.



Western blot analysis of extracts from asynchronous or mi¬totic C6, CHO and COS cells using Phospho-Cofilin (Ser3) Antibody (upper) or Cofilin Antibody (lower).



Western blot analysis of extracts from HeLa cells, untreated or H2O2-treated using Phospho-Cofilin (Ser3) Antibody (A and B) or Cofilin Antibody (C and D). Membranes (B and D) were treated with alkaline phosphatase (CIP) to demonstrate the phospho-specificity the



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antibody

References

(1) Carlier, M. et al. (1999) J. Biol. Chem. 274, 33827–33830. (2) Condeelis, J. (2001) Trends Cell Biol. 11, 288-293. (3) Arber, S. et al. (1998) Nature 393, 805–809. (4) Yang, N. et al. (1998) Nature 393, 809–812. (5) Toshima, J. et al. (2001) J. Biol. Chem. 276, 31449–31458. (6) Nebl, G. et al. (1996) J. Biol. Chem. 271, 26276–26280.

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