

Store at -20C
#8503**Cofilin (D3F9) XP[®] Rabbit mAb (HRP Conjugate)**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk Dg	Endogenous	19	Rabbit IgG	#P23528	1072

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

StorageSupplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.***Specificity/Sensitivity**Cofilin (D3F9) XP[®] Rabbit mAb (HRP Conjugate) detects endogenous levels of total cofilin1 protein.**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to central residues of human cofilin1 protein.

DescriptionThis Cell Signaling Technology[®] antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cofilin (D3F9) XP[®] Rabbit mAb #5175.**Background**

Cofilin and actin-depolymerization factor (ADF) 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).

Background References

1. Carlier, M.F. et al. (1999) *J Biol Chem* 274, 33827-30.
2. Condeelis, J. (2001) *Trends Cell Biol* 11, 288-93.
3. Arber, S. et al. (1998) *Nature* 393, 805-9.
4. Yang, N. et al. (1998) *Nature* 393, 809-12.
5. Toshima, J. et al. (2001) *J Biol Chem* 276, 31449-58.
6. Nebl, G. et al. (1996) *J Biol Chem* 271, 26276-80.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot BufferIMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween[®] 20 at 4°C with gentle shaking, overnight.**Applications Key****W:** Western Blotting**Cross-Reactivity Key****H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey **Dg:** Dog**Trademarks and Patents**

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