

## Product datasheet for **AP02426PU-N**

### Cofilin 1 (CFL1) pSer3 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. Incubate membrane with diluted antibody in 5% nonfat milk, 1xTBS, 0.1% Tween-20 at 4°C with gentle shaking overnight. <b>Immunofluorescence:</b> 1/100-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from Human Cofilin around the phosphorylation site of serine 3 (M-A-S <sub>p</sub> -G-V).
Specificity:	This antibody detects endogenous levels of Cofilin only when phosphorylated at Serine 3.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	cofilin 1
Database Link:	<a href="#">Entrez Gene 1072 Human P23528</a>



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**Background:**

Cofilin is a small phosphoinositide sensitive, actin binding protein capable of depolymerizing actin filaments in vitro. Under certain conditions, it fragments the filaments and accelerates actin subunit dissociation from their 'pointed' (minus) ends. Cofilin binds stoichiometrically to monomeric G-actin and to actin protomers in filaments in an apparent pH-dependent, Ca<sup>2+</sup>-independent manner. Cofilin intercalates between longitudinally associated actin monomers within the filament and distorts its helical twist. Cofilin is ubiquitous in tissues of eukaryotes and is especially abundant in neuronal tissues. It is essential for viability and is important for many cellular processes involving actin remodeling such as motility at the leading edge of cells, polarized cell growth, endocytosis, phagocytosis, cellular activation, cytokinesis, and pathogen intracellular motility.

**Synonyms:**

CFL1, CFL, p18

**Note:**

Molecular Weight: 19 kDa

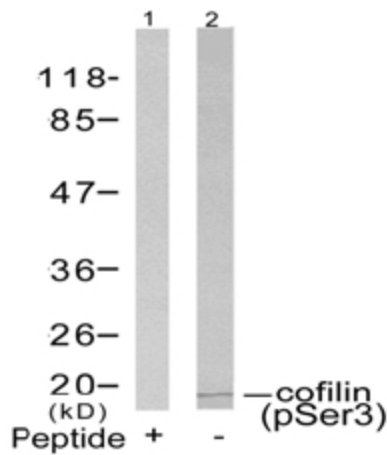
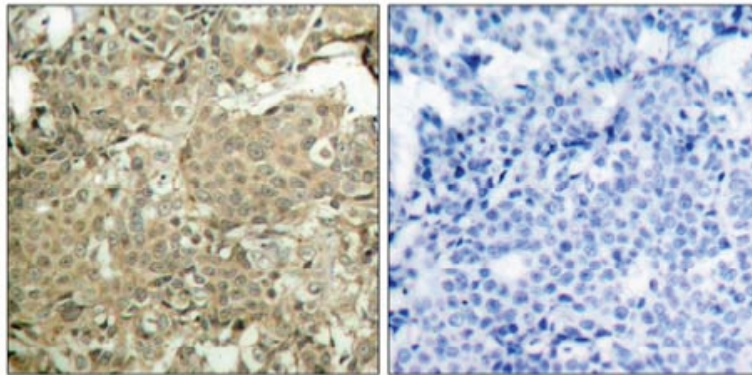
**Product images:**


Figure 3. Western blot analysis of extracts from COLO205 cells using Cofilin (phospho-Ser3) antibody (#, Lane 2) and the same antibody preincubated with blocking peptide (Lane 1).



P-Peptide

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Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using cofilin (phospho-Ser3) antibody.

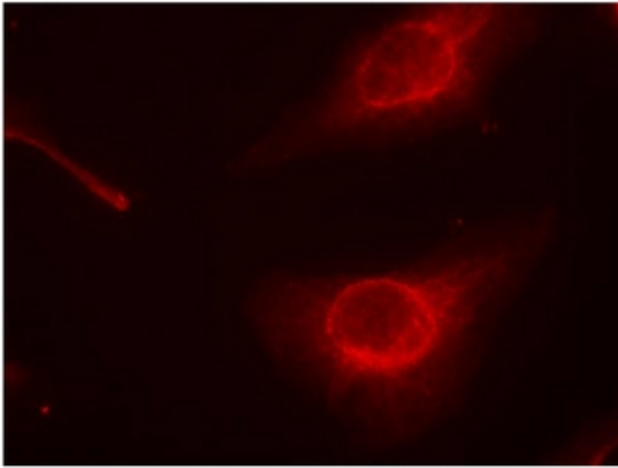


Figure 2. Immunofluorescence staining of methanol-fixed HeLa cells using Cofilin (phospho-Ser3) antibody (Red).