

## cofilin(Phospho-Ser3) Antibody

Catalog No: #11139



Package Size: #11139-1 50ul #11139-2 100ul #11139-4 25ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	cofilin(Phospho-Ser3) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of cofilin only when phosphorylated at serine 3.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 3 (M-A-S(p)-G-V) derived from Human cofilin.
Target Name	cofilin
Modification	Phospho-Ser3
Other Names	CFL; CFL1;
Accession No.	Swiss-Prot: P23528NCBI Protein: NP_005498.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

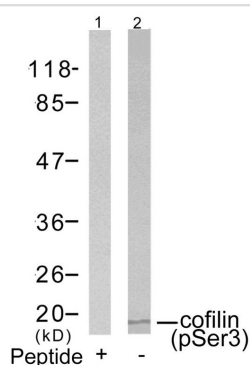
Predicted MW: 19kd

Western blotting: 1:500~1:1000

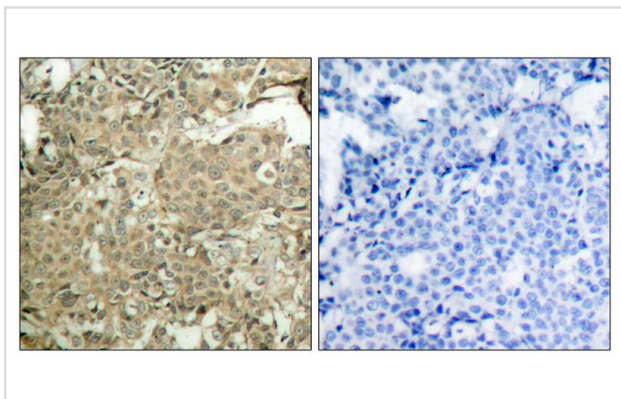
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

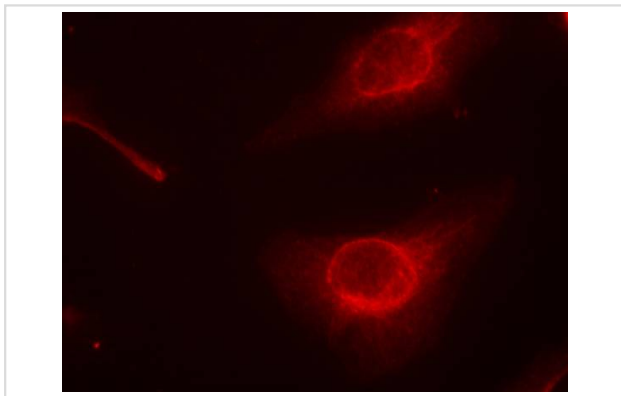
## Images



Western blot analysis of extracts from COLO205 cells using cofilin(Phospho-Ser3) Antibody #11139(Lane 2) and the same antibody preincubated with blocking peptide(Lane1).



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using cofilin(Phospho-Ser3) Antibody #11139(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using cofilin(Phospho-Ser3) Antibody #11139.

## Background

Controls reversibly actin polymerization and depolymerization in a pH-sensitive manner. It has the ability to bind G- and F-actin in a 1:1 ratio of cofilin to actin. It is the major component of intranuclear and cytoplasmic actin rods.

Kobayashi M, et al. (2006) EMBO J 25(4): 713-26.

Wang Y, et al. (2005) Biol Chem 280(13): 12683-9.

Smith-Beckerman DM, et al. (2005) Mol Cell Proteomics: 156-68.

## Published Papers

Guillaume Huet<sup>1</sup>, Eeva Kaisa Rajakyla, Tiina Viita<sup>1</sup> et al., Actin-regulated feedback loop based on Phactr4, PP1 and cofilin maintains the actin monomer pool., Journal of Cell Science, 126:497B~C507(2012)

[PMID:23203801](#)

Hui Guo, Yi Lv, Tao Tian et al., Downregulation of p57 accelerates the growth and invasion of hepatocellular carcinoma., Carcinogenesis, vol.32 no.12 pp.1897B~C1904(2011)

[PMID:22002319](#)

Lijun Zhang, Jun Luo, Ping Wan et al., Regulation of cofilin phosphorylation and asymmetry in collective cell migration during morphogenesis., Development., 138:455-464(2011)

[PMID:21205790](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.