



## Rabbit Anti-Phospho-Cofilin (Ser3) antibody

SL3099R

<b>Product Name:</b>	Phospho-Cofilin (Ser3)
<b>Chinese Name:</b>	磷酸化丝切蛋白(Ser3)抗体
<b>Alias:</b>	Cofilin (Phospho-Ser3); Cofilin (Phospho S3); 18 kDa phosphoprotein; CFL 1; CFL; CFL1; Cofilin 1; Cofilin 1 non muscle; Cofilin non muscle isoform; p18; COF1 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Sheep,
<b>Applications:</b>	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	18kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated Synthesised phosphopeptide derived from human Cofilin around the phosphorylation site of Ser3:A(p-S)GV
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene can polymerize and depolymerize F-actin and G-actin in a pH-dependent manner. Increased phosphorylation of this protein by LIM kinase aids

in Rho-induced reorganization of the actin cytoskeleton. Cofilin is a widely distributed intracellular actin-modulating protein that binds and depolymerizes filamentous F-actin and inhibits the polymerization of monomeric G-actin in a pH-dependent manner. It is involved in the translocation of actin-cofilin complex from cytoplasm to nucleus.[supplied by OMIM, Apr 2004].

**Function:**

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.

**Subunit:**

Can bind G- and F-actin in a 1:1 ratio of cofilin to actin. It is a major component of intranuclear and cytoplasmic actin rods.

**Subcellular Location:**

Nucleus matrix. Cytoplasm, cytoskeleton.

**Tissue Specificity:**

Widely distributed in various tissues.

**Post-translational modifications:**

Inactivated by phosphorylation on Ser-3. Phosphorylated on Ser-3 in resting cells. Dephosphorylated by PDXP/chronophin; this restores its activity in promoting actin filament depolymerization. The phosphorylation of Ser-24 may prevent recognition of the nuclear localization signal.

**Similarity:**

Belongs to the actin-binding proteins ADF family.  
Contains 1 ADF-H domain.

**SWISS:**

P23528

**Gene ID:**

1072

**Database links:**

[Entrez Gene: 1072](#) Human

[Entrez Gene: 534553](#) Cow

[Entrez Gene: 12631](#) Mouse

[Entrez Gene: 445532](#) Pig

[Entrez Gene: 29271](#) Rat

[Entrez Gene: 494432](#) Sheep

[Omim: 601442](#) Human

[SwissProt: Q5E9F7](#) Cow

[SwissProt: P23528](#) Human

[SwissProt: P18760](#) Mouse

[SwissProt: P10668](#) Pig

[SwissProt: P45592](#) Rat

[SwissProt: Q6B7M7](#) Sheep

[Unigene: 52428](#) Cow

[Unigene: 170622](#) Human

[Unigene: 329655](#) Mouse

[Unigene: 11675](#) Rat

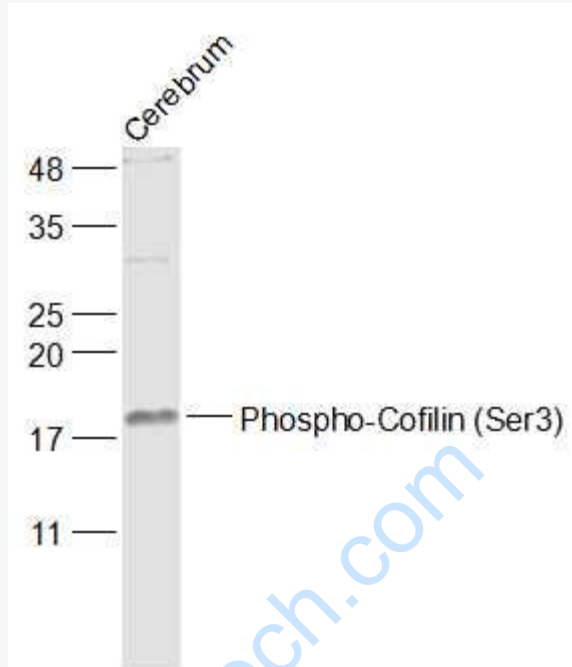
[Unigene: 13212](#) Sheep

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

丝切蛋白(cofilin)是Cytoskeleton塑形的重要调节因素,其主要功能是分解肌动蛋白微丝和增加肌动蛋白单体从肌动蛋白微丝的末端解离的速度,从而促进肌动蛋白微丝的循环,是目前为止已发现的肌动蛋白Binding protein家族中唯一能够改变肌动蛋白微丝扭曲结构的蛋白.

Picture:



Sample:

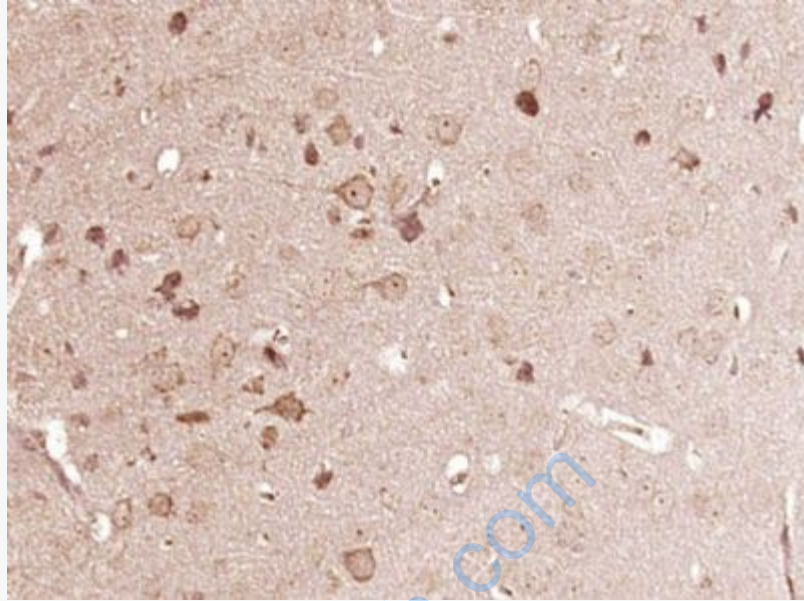
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-Phospho-Cofilin (Ser3) (SL3099R) at 1/1000 dilution

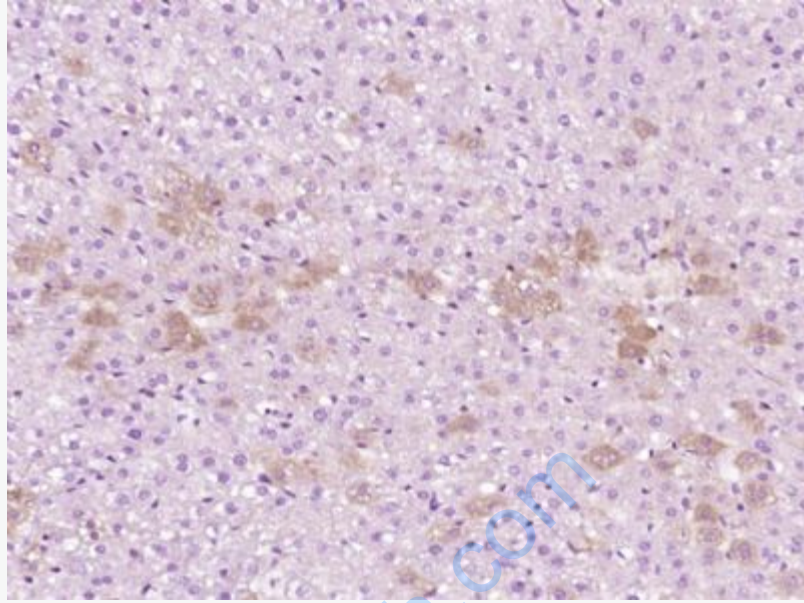
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 18 kD

Observed band size: 18 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-Cofilin (Ser3)) Polyclonal Antibody, Unconjugated (SL3099R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-Cofilin (Ser3)) Polyclonal Antibody, Unconjugated (SL3099R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.