



Rabbit Anti-Phospho-Cofilin (Ser3) antibody

SL20261R

Product Name:	Phospho-Cofilin (Ser3)
Chinese Name:	磷酸化丝切蛋白(Ser3)抗体
Alias:	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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	18kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human Cofilin around the phosphorylation site of Ser3:A(p-S)GV
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	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.
PubMed:	PubMed
Product Detail:	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

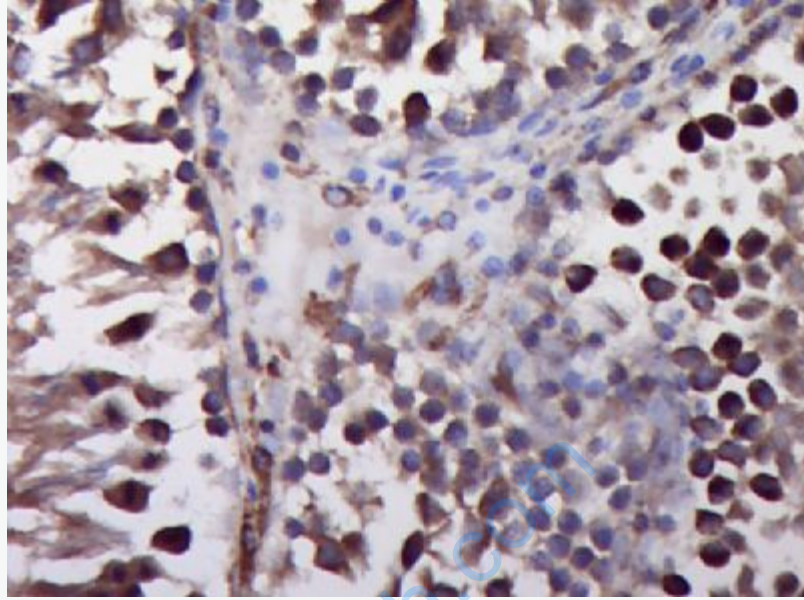
[Unigene: 329655](#) Mouse

[Unigene: 11675](#) Rat

[Unigene: 13212](#) Sheep

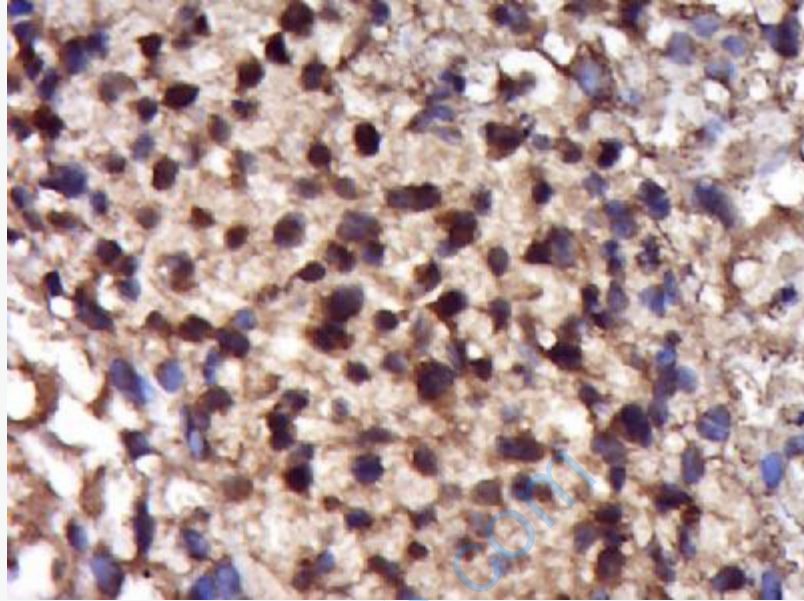
Important Note:

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



Picture:

Paraformaldehyde-fixed, paraffin embedded (Rat testis); 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 (P-Cofilin (Ser3)) Polyclonal Antibody, Unconjugated (SL20261R) 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 (Mouse placenta); 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 (P-Cofilin (Ser3)) Polyclonal Antibody, Unconjugated (SL20261R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.