

## Anti-CNN1 Antibody (5Y848)

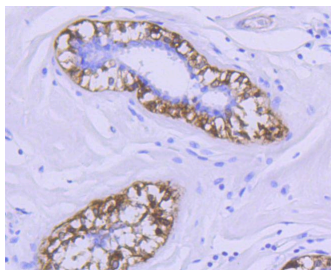
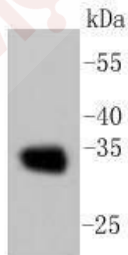
### Product Details

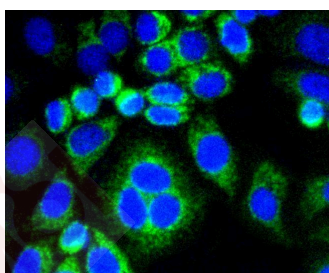
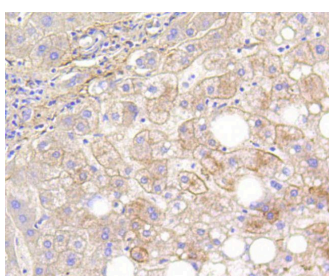
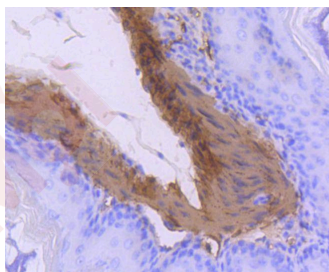
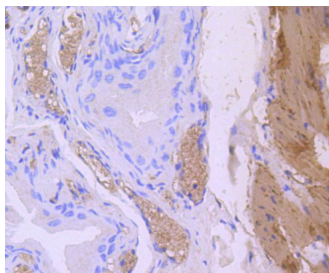
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,Dog,Pig
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 33 kDa.
Clone:	5Y848
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of Calponin on Hela cell lysates using anti-Calponin antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-Calponin antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse bladder tissue using anti-Calponin antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-Calponin antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Calponin antibody. Counter stained with hematoxylin.
6. ICC staining Calponin in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P51911

Synonyms: CNN 1;Sm Calp;Basic calponin;Calponins basic;Calponin H1;Epididymis secretory protein Li 14; smooth muscle;Calponin 1 basic smooth muscle;Calponin-1;HEL S 14;Calponin1;Calponin H1 smooth muscle;SMCC

### Research Background

Calponin regulates smooth muscle cell contraction and is a marker of smooth muscle cell differentiation. Calponin, an Actin- and Tropomyosin-binding protein, is characterized as an inhibitory factor of smooth-muscle actomyosin activity. Calponin is implicated in the regulation of smooth muscle contraction through its interaction with F-Actin

and inhibition of the Actin-activated MgATPase activity of phosphorylated Myosin. Both properties are lost following phosphorylation (primarily at Serine 175) by protein kinase C or calmodulin-dependent protein kinase II. The three forms of Calponin, Calponin 1 (basic Calponin), Calponin 2 (neutral Calponin) and Calponin 3 (acidic Calponin), are found in smooth muscle tissue. Additionally, Calponin 2 is found in heart muscle tissue and Calponin 3 is found in the brain.

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