# CNN1 Rabbit monoclonal antibody

Catalog: BS9892M Host: Rabbit Reactivity: Human,Mouse,Rat, Dog, Pig

## 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.

## Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

## Molecular Weight:

~ 33 kDa

## Swiss-Prot:

P51911

## Purification&Purity:

Protein A affinity purified

## Applications:

WB: 1:1000-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

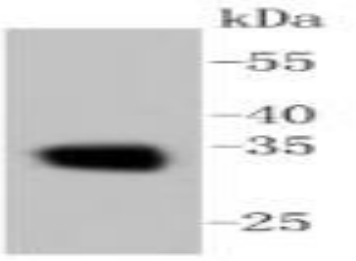
## Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

## Specificity:

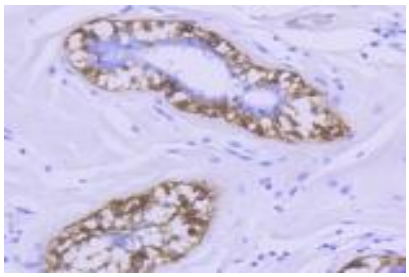
This antibody detects endogenous levels of CNN1 and does not cross-react with related proteins.

## DATA:

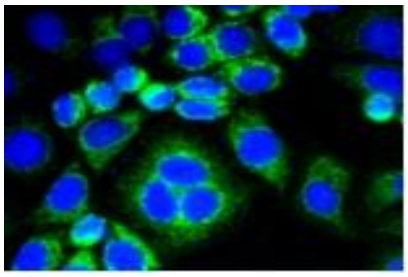



Western blot (WB) analysis of CNN1 Rabbit mAb at 1:1000 dilution

Lane1:Hela whole cell lysate



Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-Calponin antibody. Counter stained with hematoxylin.



ICC staining Calponin in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

## Note:

For research use only, not for use in diagnostic procedure.

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