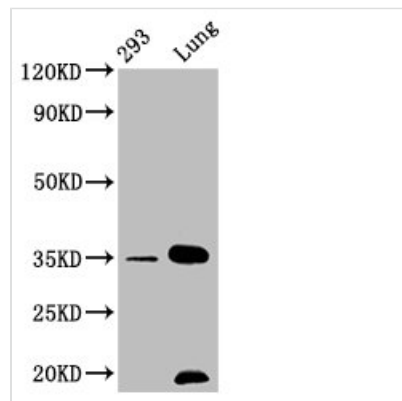




# CNN1 Antibody

<b>Product Code</b>	CSB-RA005655A0HU
<b>Abbreviation</b>	Calponin-1
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P51911
<b>Immunogen</b>	A synthesized peptide derived from human CNN1
<b>Species Reactivity</b>	Human, Mouse
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
<b>Relevance</b>	Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity (By similarity).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Calponin-1, Basic calponin, Calponin H1, smooth muscle, CNN1
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	CNN1
<b>Accession NO.</b>	2H1

## Image



### Western Blot

Positive WB detected in: 293 whole cell lysate, Mouse lung tissue

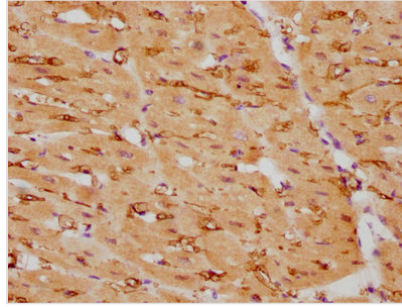
All lanes: CNN1 antibody at 1.05µg/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 34, 32 KDa

Observed band size: 34 KDa



IHC image of CSB-RA005655A0HU diluted at 1:105 and staining in paraffin-embedded human heart tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

## Description

The product CSB-RA005655A0HU is a recombinant CNN1 monoclonal antibody. It is generated by transfecting the human CNN1 gene-vector clones into the cell line for in vitro production and subsequent purification from the tissue culture supernatant (TCS). This CNN1 antibody can react with human CNN1 protein. It has undergone affinity-chromatography purification. And it is suitable for ELISA, WB, and IHC assays.

CNN1 is specifically expressed in differentiated mature smooth muscle cells and is implicated in the regulation and modulation of smooth muscle contraction. It is up-regulated in smooth muscle tissues during postnatal development with a higher content in the phasic smooth muscle of the digestive tract