Datasheet for ABIN3042824

anti-CNN1 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	CNN1
Binding Specificity:	AA 283-297, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CNN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Calponin-1(CNN1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Calponin(283-297aa EPAHNHHAHNYYNSA), different from the related mouse and rat sequences by two amino acids.
Sequence:	EPAHNHHAHN YYNSA
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Calponin-1(CNN1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: calponin 1, basic, smooth muscle

Product Details

	Protein Name: Calponin-1
Purification:	Immunogen affinity purified.

Target Details

Target:	CNN1
Alternative Name:	CNN1 (CNN1 Products)
Background:	Calponin is a basic 34-kD protein first isolated from chicken gizzard and bovine aorta. This gene is mapped to 19p13.2. It is specifically expressed in smooth muscle and binds calmodulin, actin, and tropomyosin. It is able to inhibit the ATPase activity of myosin and is though to play a role in smooth muscle contraction. Calponin is a smooth muscle specific, actin-, tropomyosin- and calmodulin-binding protein though to be involved in some way in the regulation or modulation of contraction. Synonyms: Basic calponin antibody|Calponin 1 antibody|Calponin 1 basic smooth muscle antibody|Calponin H1 antibody|Calponin H1 smooth muscle antibody|Calponin-1 antibody|Calponin1 antibody|Calponins basic antibody|CNN 1 antibody|Cnn1 antibody|CNN1_HUMAN antibody|Sm Calp antibody|SMCC antibody|smooth muscle antibody
UniProt:	P51911

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

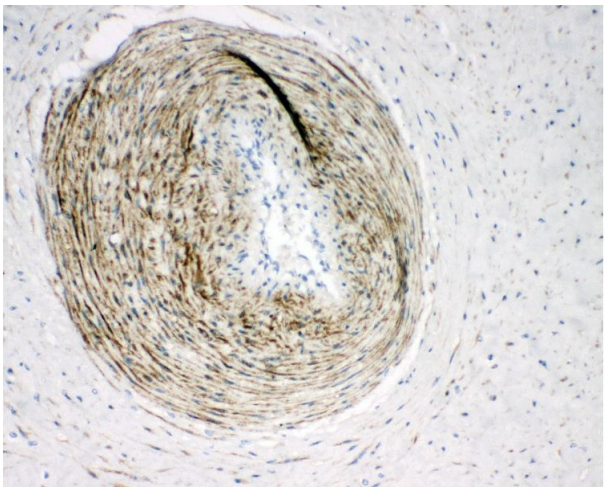
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

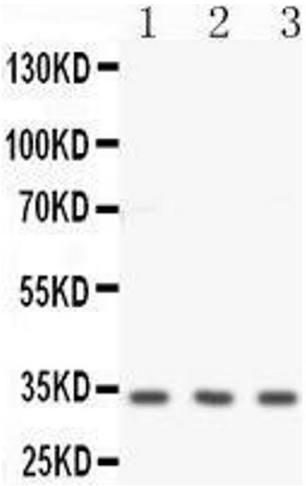
Product cited in:	Li, Byrd, Doh, Dixon, Lee, Tiwari, Ecelbarger: "Absence of renal enlargement in fructose-fed proximal-tubule-select insulin receptor (IR), insulin-like-growth factor receptor (IGF1R) double knockout mice." in: **Physiological reports**, Vol. 4, Issue 23, (2018) (PubMed).

Images



Immunohistochemistry

Image 1. Anti-Calponin antibody, IHC(P) IHC(P): Human Placenta Tissue



Western Blotting

Image 2. Anti-Calponin antibody,Western blotting All lanes: Anti -Calponin at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: JURKAT Whole Cell Lysate at 40ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 33KD Observed bind size: 33KD