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## **CNN1 (vPair™) Antibodies**

**Cat#: R0197-vp**

**Lot#: Refer to vial**

**Predicted M.W.: 33 kDa**

**Uniprot ID: P51911**

**Application: WB**

**Quantity:** 50 ul CNN1 (N) (R0197-1) Rabbit Polyclonal Antibody &  
50 ul CNN1 (C) (R0197-2) Rabbit Polyclonal Antibody

### **Product Introduction:**

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

### **Background:**

Calponin-1 (CNN1) is a thin filament-associated protein implicated in the regulation and modulation of smooth muscle contraction. CNN1 is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of CNN1 with actin inhibits the actomyosin Mg-ATPase activity. CNN1 is part of cGMP kinase signaling complex at least composed of ACTA2/alpha-actin, CNN1/calponin H1, PLN/phospholamban, PRKG1 and ITPR1.

### **Other Names:**

Calponin-1, Basic calponin, Calponin H1, smooth muscle

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing either the N-terminal [CNN1 (N) (R0197-1)] or the C-terminal [CNN1 (C) (R0197-2)] region of human CNN1. Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

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**Species Specificity:**

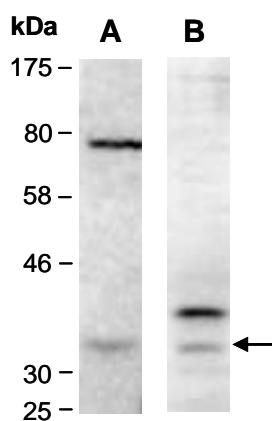
Human, Mouse

**Tested Applications:**

WB: 1:1,000-1:5,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Product Data:**



**Fig 1.** Western blot of total cell extracts from mouse mammary gland, using Abs (A: R0197-1; B: R0197-2) at RT for 2 h.

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