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CALD1 (C) Antibody, Rabbit Polyclonal

Cat#: R2498-2b

Quantity: 100 ul

Predicted | Observed M.W.: 93 | 70 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q05682

Background:

Caldesmon (CALD1) belongs to the caldesmon family and is an actin- and myosin-binding protein implicated in the regulation of actomyosin interactions in smooth muscle and nonmuscle cells (could act as a bridge between myosin and actin filaments). CALD1 stimulates actin binding of tropomyosin which increases the stabilization of actin filament structure. In muscle tissues, CALD1 inhibits the actomyosin ATPase by binding to F-actin. This inhibition is attenuated by calcium-calmodulin and is potentiated by tropomyosin.

Other Names:

Caldesmon, CDM, CAD

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human CALD1. 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% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

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

Product Data:

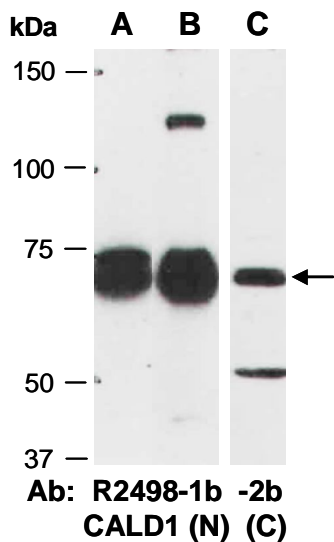


Fig 1. Western blot of total cell extracts from (A) mouse brain, (B, C) human HeLa; using 2 independent Abs against 2 distinct regions of human CALD1 at RT for 2 h. These Abs recognize the 70 kD isoform of CALD1.