



[Go to Product page](#)

Datasheet for ABIN4886498

anti-Caldesmon antibody (AA 1-120)

4 Images

Overview

Quantity:	100 µg
Target:	Caldesmon (CALD1)
Binding Specificity:	AA 1-120
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Caldesmon(CALD1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E. coli-derived human Caldesmon recombinant protein (Position: M1-E120). Human Caldesmon shares 87.6% amino acid (aa) sequence identity with rat Caldesmon.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Caldesmon(CALD1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: caldesmon 1 Protein Name: Caldesmon
Purification:	Immunogen affinity purified.

Target Details

Target:	Caldesmon (CALD1)
Alternative Name:	CALD1 (CALD1 Products)
Background:	<p>Caldesmon is a protein that in humans is encoded by the CALD1 gene. It is mapped to 7q33. This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves as a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.</p> <p>Synonyms: CAD CALD 1 CALD1 CALD-1 Caldesmon 1 Caldesmon1 Caldesmon-1 Caldesmon CDM HCAD H CAD H-CAD LCAD L CAD L-CAD NAG22 Q05682</p>
Gene ID:	800
UniProt:	Q05682
Pathways:	Myometrial Relaxation and Contraction

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat</p> <p>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.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

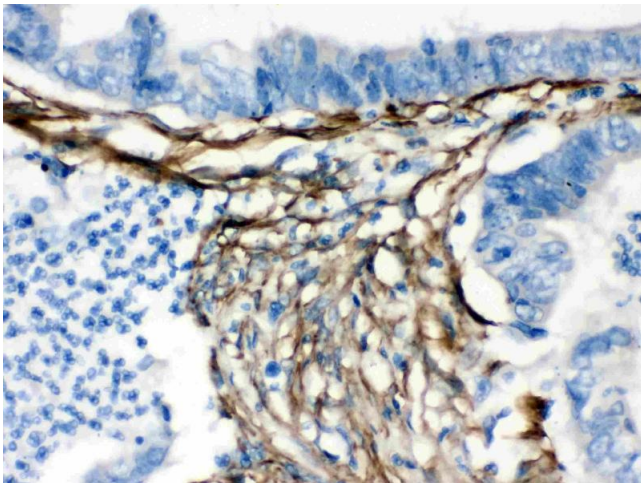
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

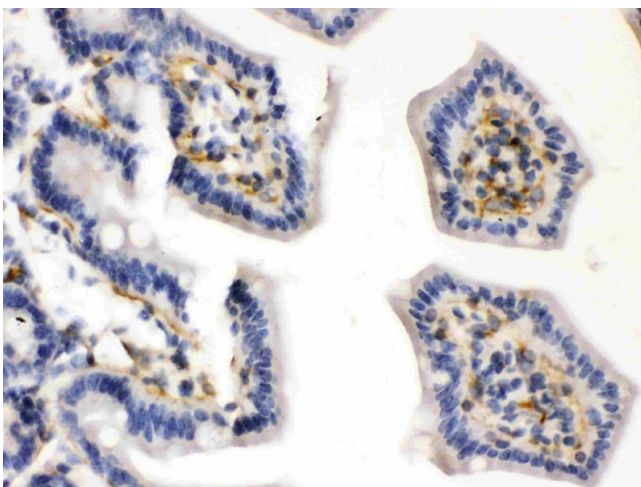
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and 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.

Images



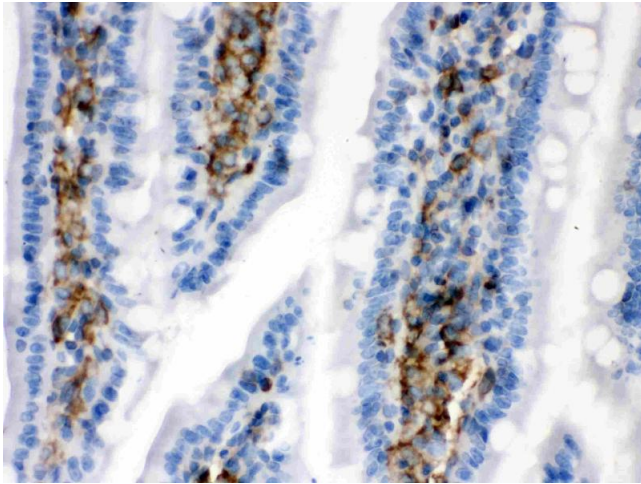
Immunohistochemistry

Image 1. Caldesmon was detected in paraffin-embedded sections of human intestinal tissues using rabbit anti-Caldesmon Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. Caldesmon was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti-Caldesmon Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 3. Caldesmon was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti-Caldesmon Antigen Affinity purified polyclonal antibody (Catalog #) at 1 $\mu\text{g}/\text{mL}$. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN4886498.