

Rabbit Caldesmon Polyclonal Antibody | anti-CALD1 antibody

Anti-Caldesmon Antibody

CATALOG # AAA46600	HOST Rabbit	REACTIVITY Human, Mouse, Rat No cross reactivity with other proteins.	APPLICATIONS Immunohistochemistry, Western Blot
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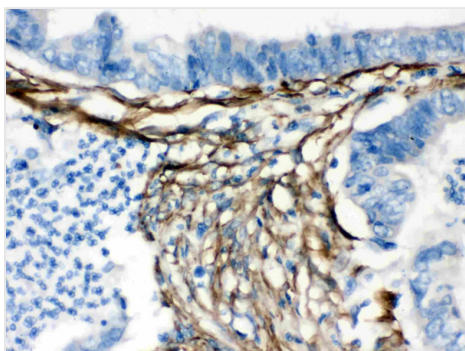
PRODUCT SYNONYMS

Caldesmon; Polyclonal Antibody; Anti-Caldesmon Antibody; CAD; CALD 1; CALD1; CALD-1; Caldesmon 1; Caldesmon1; Caldesmon-1; CDM; HCAD; H CAD; H-CAD; LCAD; L CAD; L-CAD; NAG22; Q05682; caldesmon 1; anti-CALD1 antibody

PRODUCT SPECIFICATIONS

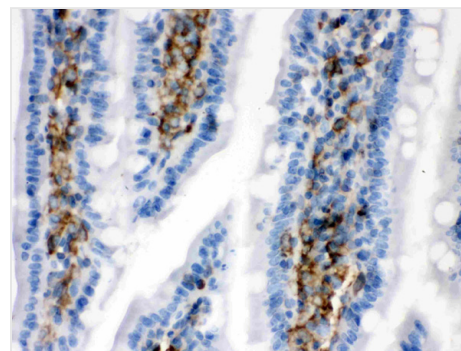
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	538
Applicable Applications for anti-CALD1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Caldesmon recombinant protein (Position: M1-E120). Human Caldesmon shares 87.6% amino acid (aa) sequence identity with rat Caldesmon.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



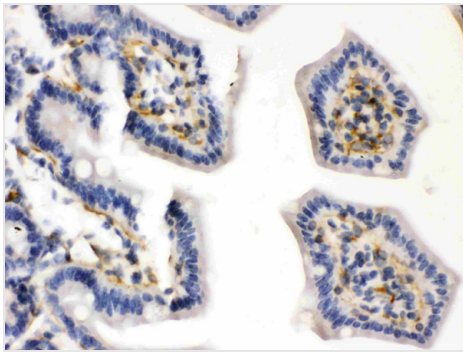
IHC (Immunohistochemistry)

Caldesmon was detected in paraffin-embedded sections of human intestinal tissues using rabbit anti- Caldesmon Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



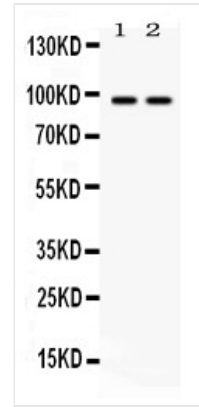
IHC (Immunohistochemistry)

Caldesmon was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti- Caldesmon Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)

Caldesmon was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti- Caldesmon Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of Caldesmon expression in rat skeletal muscle extract (lane 1) and HELA whole cell lysates (lane 2). Caldesmon at 93KD was detected using rabbit anti- Caldesmon Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-CALD1 antibody	Rabbit IgG polyclonal antibody for Caldesmon (CALD1) detection. Background: 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.
References	1. "Entrez Gene: CALD1 caldesmon 1". 2. Humphrey MB, Herrera-Sosa H, Gonzalez G, et al. (1992). "Cloning of cDNAs encoding human caldesmons". Gene 112(2): 197-204. 3. Novy RE, Lin JL, Lin JJ (Oct 1991). "Characterization of cDNA clones encoding a human fibroblast caldesmon isoform and analysis of caldesmon expression in normal and transformed cells". J Biol Chem 266 (25): 16917-24.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826657
NCBI GeneID	800
NCBI Accession #	NP_004333.1
NCBI GenBank Nucleotide #	NM_004342.6
UniProt Accession #	Q05682 ; Q13978 ; Q13979 ; Q14741 ; Q14742 ; Q9UD91 ; A8K0X1
Molecular Weight	65,620 Da
NCBI Official Full Name	caldesmon isoform 2
NCBI Official Synonym Full Names	caldesmon 1
NCBI Official Symbol	CALD1
NCBI Official Synonym Symbols	CDM; HCAD; LCAD; H-CAD; L-CAD; NAG22
NCBI Protein Information	caldesmon
UniProt Protein Name	Caldesmon
UniProt Gene Name	CALD1
UniProt Synonym Gene Names	CAD; CDM; CDM

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/caldesmon-antibody-immunohistochemistry-western-blot-elisa/46600>