

Datasheet for 200-301-P24**Caldesmon (smooth) Antibody****Overview**

Description:	Anti-Caldesmon (smooth) (MOUSE) Antibody - 200-301-P24
Item No.:	200-301-P24
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rabbit
Host Species:	Mouse

Product Details

Background:	Caldesmon is a potential actomyosin regulatory protein found in smooth muscle and nonmuscle cells. The predicted smooth-muscle polypeptide is 793 amino acids long. The high molecular weight caldesmon (h-CaD) is predominantly expressed in smooth muscles, whereas the low molecular weight caldesmon (l-CaD) is widely distributed in nonmuscle tissues and cells. Hayashi et al. (1992) demonstrated that the human CDM gene is composed of 14 exons. This antibody is suitable for researchers interested in neurodegenerative diseases, developmental signaling, GPCR signaling, and MAK Kinase Signaling.
Synonyms:	CDM, H-CAD, L-CAD
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	hHCD
Format:	IgG1

Target Details

Gene Name:	CALD1
Reactivity:	Human, Mouse, Rabbit
Immunogen Type:	Other
Immunogen:	Caldesmon (smooth) antibody was produced in mice by repeated immunizations with human uterus smooth muscle extract.

Purity/Specificity: Anti-Caldesmon antibody was purified from mouse ascites by protein A chromatography. This product reacts with human, mouse, and rabbit. Cross reactivity with Caldesmon from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q05682](#)
- [GeneID - 800](#)
- [NCBI - NP_004333.1](#)

Application Details

Tested Applications: IHC, WB

Application Note: Anti-Caldesmon is tested for Immunohistochemistry-P and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~93.2 kDa with isoforms ~60kDa corresponding to the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:20,000

IHC: 1:100-1:500

WB: 1-2ug/ml

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 1.2% sodium acetate

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: 2mg BSA

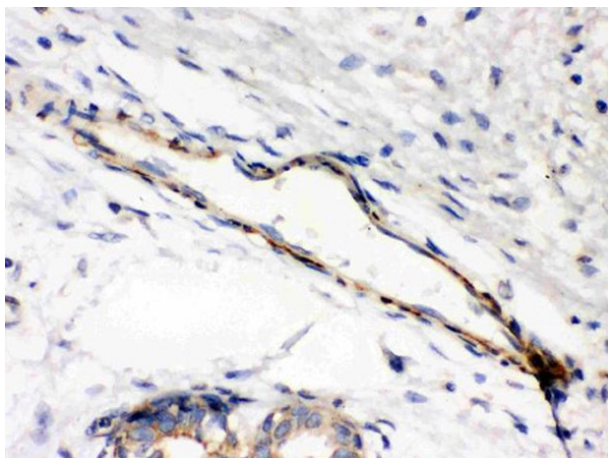
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

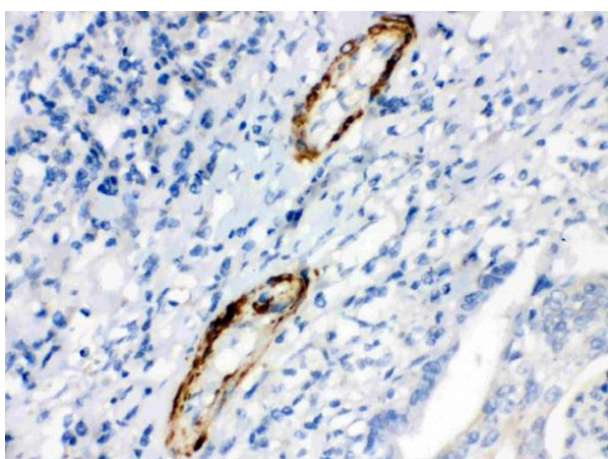
Images



Immunohistochemistry

Immunohistochemistry of Anti-Caldesmon (smooth) antibody.

Tissue: Human Mammary Cancer Tissue. IHC(P).



Immunohistochemistry

Immunohistochemistry of Anti-Caldesmon (smooth) antibody.

Tissue: Human Intestinal Cancer Tissue. IHC(P).

Disclaimer

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