

Product datasheet for **AM20595PU-N**

Caldesmon (CALD1) (smooth) Mouse Monoclonal Antibody [Clone ID: CD-7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CD-7
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1 - 2 µg/ml. Immunohistochemistry on frozen and paraffin sections: 2 - 4 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Caldesmon from turkey gizzard
Specificity:	This antibody reacts to Caldesmon (smooth).
Formulation:	1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative. State: Aff - Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1.2% sodium acetate or neutral PBS
Concentration:	0,1 mg/ml (after reconstitution with PBS)
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	caldesmon 1
Database Link:	Entrez Gene 800 Human Q05682



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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.
Synonyms:	CALD1, CAD, CDM
Protein Pathways:	Vascular smooth muscle contraction