

## Product datasheet for **TA815302S**

### Caldesmon (CALD1) Mouse Monoclonal Antibody [Clone ID: OTI3E8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3E8
Applications:	IHC
Recommended Dilution:	IHC 1:1200
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 220-450 human Caldesmon (NP_149129) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1.00mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	93.2 kDa
Gene Name:	caldesmon 1
Database Link:	<a href="#">NP_149129</a> <a href="#">Entrez Gene 800 Human</a> <a href="#">Q05682</a>



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**Background:**

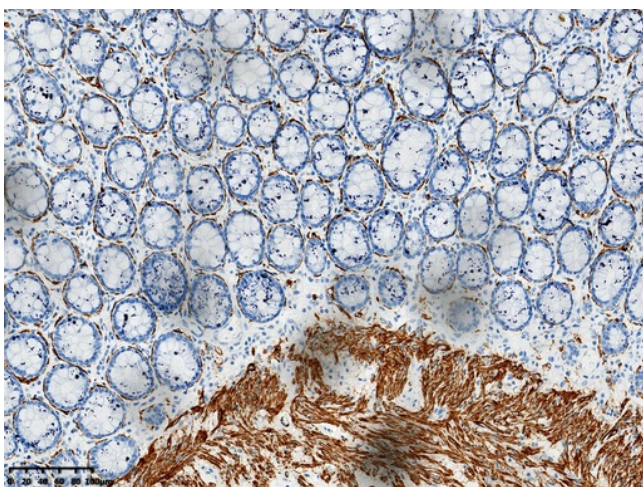
This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein 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. [provided by RefSeq, Jul 2008]

**Synonyms:**

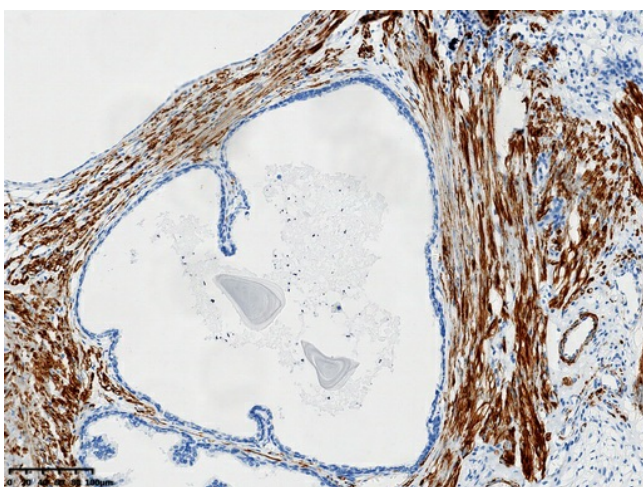
CDM; H-CAD; HCAD; L-CAD; LCAD; NAG22

**Protein Pathways:**

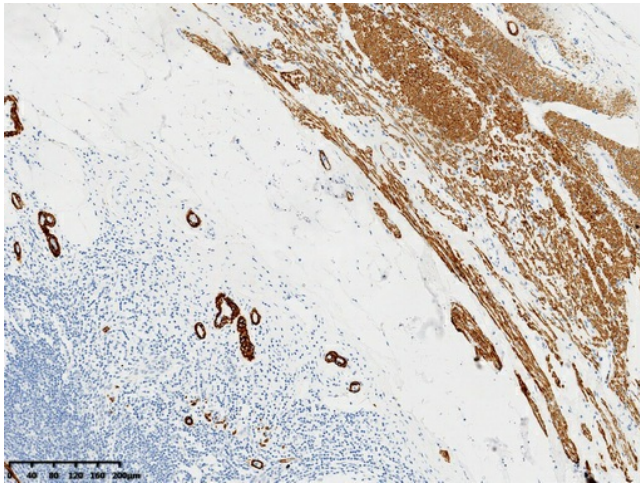
Vascular smooth muscle contraction

**Product images:**

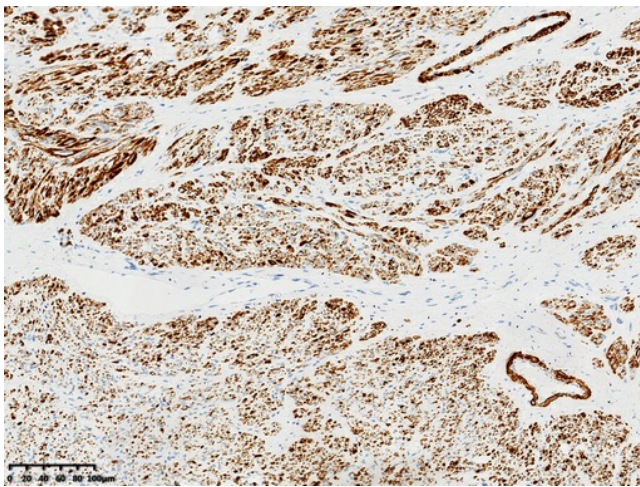
IHC staining of FFPE human colon tissue with in normal limits using anti-CALD1 mouse monoclonal antibody ([TA815302]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 ([B04C-100]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.



IHC staining of FFPE human prostate tissue with in normal limits using anti-CALD1 mouse monoclonal antibody ([TA815302]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 ([B04C-100]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.



IHC staining of FFPE human appendix tissue with in normal limits using anti-CALD1 mouse monoclonal antibody ([TA815302]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 ([B04C-100]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.



IHC staining of FFPE human uterine leiomyoma tissue using anti-CALD1 mouse monoclonal antibody ([TA815302]) and Polink-2 HRP polymer detection kit ([D22-110]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 ([B04C-100]) at 120°C for 3 min. The brown stain indicates positive stain, blue is the counter stain.