

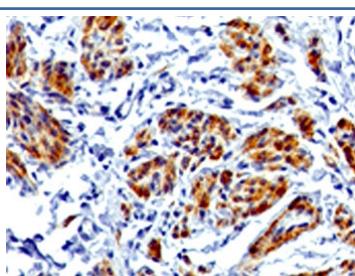
## Recombinant CAD Antibody / CALD1 / Caldesmon (HMW) [clone RMCDN1-1] (V7200)

Catalog No.	Formulation	Size
V7200-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7200-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7200SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7200IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Recombinant **RABBIT MONOCLONAL**

**Bulk quote request**

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	RMCDN1-1
Purity	Protein A affinity chromatography
UniProt	Q05682
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This recombinant CAD antibody is available for research use only.



IHC testing of FFPE human uterus with recombinant CAD antibody (clone RMCDN1-1).  
HIER: steam sections in 10mM Tris with 1mM EDTA, pH9, for 10-20 min.

## Description

Caldesmon is an actin- and myosin-binding protein implicated in the regulation of actomyosin interactions in smooth muscle and nonmuscle cells (could act as a bridge between myosin and actin filaments). Stimulates actin binding of tropomyosin which increases the stabilization of actin filament structure. In muscle tissues, inhibits the actomyosin ATPase by binding to F-actin. This inhibition is attenuated by calcium-calmodulin and is potentiated by tropomyosin. Interacts with actin, myosin, two molecules of tropomyosin and with calmodulin. Also play an essential role during cellular mitosis and receptor capping. Involved in Schwann cell migration during peripheral nerve regeneration (By similarity). [UniProt]

## Application Notes

Titering of the recombinant CAD antibody may be required for optimal performance.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

A full length human protein was used as the immunogen for the recombinant CAD antibody.

## Storage

Store the recombinant CAD antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).