

Anti-CALD1 antibody

Cat. No.	ml220327
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol

Product overview

Description	Anti-CALD1 rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human CALD1
Reactivity	Human, Rat
Content	0.4 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	CALD1
Full name	caldesmon 1

Synonyms CDM, HCAD, LCAD, H-CAD, L-CAD, NAG22

Swissprot Q05682

Target 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 $\text{Ca}(2+)$ -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 $\text{Ca}(2+)$ -dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.

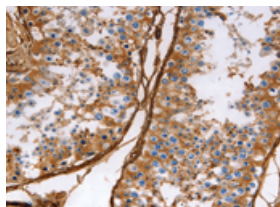
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human testis

Recommended dilution: 50-150

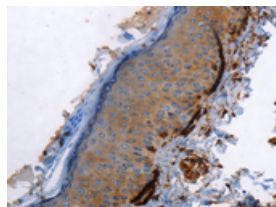


The image on the left is immunohistochemistry of paraffin-embedded Human testis tissue using ml220327(CALD1 Antibody) at dilution 1/40, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Predicted cell location: Cytoplasm

Positive control: Human skin

Recommended dilution: 50-150



The image on the left is immunohistochemistry of paraffin-embedded Human skin tissue using ml220327(CALD1 Antibody) at dilution 1/40, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Western blotting

Predicted band size: 63 kDa

Positive control: 293T cells

Recommended dilution: 1000-5000

Gel: 10%SDS-PAGE

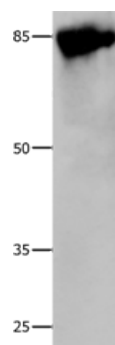
Lysate: 30 μ g

Lane: 293T cells

Primary antibody: ml220327(CALD1 Antibody) at dilution 1/800

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 30 seconds



ELISA

Recommended dilution: 2000-10000

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