



# Recombinant Rat Non-muscle caldesmon (Cald1)

<b>Product Code</b>	CSB-EP720315RA-B
<b>Abbreviation</b>	Cald1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q62736
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MLSRSGSQGR RCLATLSQIA YQRNDDDEEE AARERRRRAR QERLRQKQEE  ESLGQVTDQV EAHVQNSAPD EESKPATANA QVEGDDEEAAL LERLARREER  RQKRLQEALE RQKEFDPTIT DGSLSVPSRR MQNNSAENET AEGEEKGESR  SGRYEMEETE VVITSYQKNS YQDAEDKKKE EKEEEEEEEK LKGGNLGENQ  IKDEKIKKDK EPKEEVKNFL DRKKGFTVEK AQNGEFMTHK LKQTENAFSP  SRSGGRASGD KEAEGAPQVE AGKRLEELRR RRGETESEEF EKLKQKQQEA  ALELEELKKK REERRKVL EEQRRKQEEA DRKAREEEEEK RRLKEEIERR  RAEAAEKRQK MPEDGLSEDK KPFKCFTPKG SSLKIEERAE FLNKSVMQKSG  VKSTHQAADV SKIDSRLEQY TNAIEGTKAS KPMKPAASDL PVPAEGVRNI  KSMWEKGSVF SSPSASGTPN KETAGLKVGV SSRINEWLTK SPDGNKSPAP  KPSDLRPGDV SGKRNLWEKQ SVDKVTSPTK V</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Cald1
<b>Protein Names</b>	Recommended name: Non-muscle caldesmon Short name= CDM Alternative name(s): L-caldesmon
<b>Expression Region</b>	1-531
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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