

Active Recombinant Full Length Rat Calpain 2 Protein, His-tagged

Cat. No. Capn2-2632R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length Rat Calpain 2 Protein with His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	1-700aa
Description	Enables calcium ion binding activity; cytoskeletal protein binding activity; and enzyme binding activity. Contributes to calcium-dependent cysteine-type endopeptidase activity. Involved in several processes, including cellular response to interferon-beta; positive regulation of cell death; and positive regulation of myoblast fusion. Located in several cellular components, including external side of plasma membrane; focal adhesion; and neuronal cell body. Colocalizes with mitochondrial intermembrane space. Biomarker of hypertrophic cardiomyopathy and sciatic neuropathy. Orthologous to human CAPN2 (calpain 2).
Tag	His
Bio-activity	1.47 U/mg protein. One unit is defined as the amount of enzyme that cleaves 1pmol of the caspase substrate N-succinyl-Leu-Tyr-7-amido-4-methylcoumarin per 15 min at 37 centigrade.

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AA Sequence

MAGIAMKLAKDREAAEGLGSHERAICYLNQDYETLRNECLEAGALFQDPSFPALPSS
 LGFKELGPYSSKTRGIEWKRPTEICADPQFIIGGATRTDICQGALGDCWLLAAIASLTL
 NEEILARVVPLDQSFQENYAGIFHFQFWQYGEWVEVVVDDRLPTKDGELLFVHSAE
 GSEFWSALLEKAYAKINGCYEALSGGATTEGFEDFTGGIAEWYELRKPPPNLFKIIQK
 ALEKGSLLGCSIDITSAADSEAVTYQKLVKGHAYSVTGAAEEVESSGSLQKLIRIRNPW
 GQVEWTGKWNDNCPSWNTVDPEVRANLTERQEDGEFWMSFSDFLRHYSRLEICN
 LTPDTLTCDYKKWKLTKMDGNWRRGSTAGGCRNYPNTFWMNPQYLIKLEEEDED
 DEDGERGCTFLVGLIQKHRRRQRKMGEDMHTIGFGIYEVPEELTGQTNHLSKNFFL
 TTRARERSDTFINLREVLNRFKLPPGEYVLPSTFEPHKNNGDFCIRVFSEKKADYQTV
 DDEIEANIEEIEANEEDIGDGFRRLLFAQLAGEDAEISAFELQTLRRVLAKREDIKSDGF
 SIETCKIMVDMLDEDGSGKLGLKEFYILWTKIQKYQKIYREIDVDRSGTMNSYEMRKA
 LEEAGFKLPCQLHQVIVARFADDELIIDFDNFVRCLVRLEILFKIFKQLDPENTGTIQLD
 LISWLSFSLVHHHHHHMHHHHHHHYSNIEANESEEEERQFRKLFVQLAGDDMEVSAT
 ELMNILNKVVTRHPDLKTDGFGIDTCRSMVAVMDSDTTGKLGFEFEKYLWNNIKKW
 QGIYKRFDTDRTSGTIGSNELPGAFAAGFHLNQHIYSMIIRRYSDETGNMDFDNFISC
 LVRLDAMFRAFRLDKNGTGQIQVNIQEWLQLTMYS

Purity

>90% by SDS-PAGE

Storage

Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration

1.2 mg/mL by Bradford

Storage Buffer

Sterile 50mM Tris, pH7.8, 100mM NaCl, 5mM EDTA, 5mM β -mercaptoethanol, 40% Glycerol

GENE INFORMATION

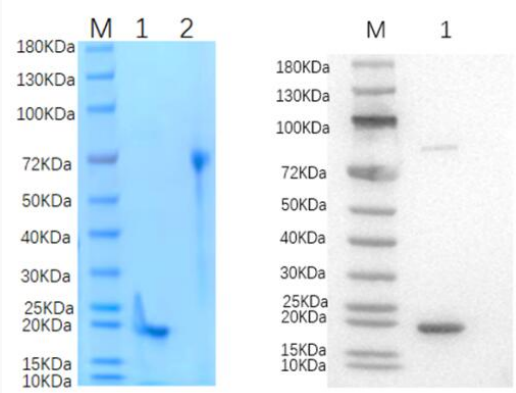
Gene Name

Capn2 calpain 2 [*Rattus norvegicus* (Norway rat)]

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Official Symbol	Capn2
Synonyms	Active Recombinant Full Length Rat Calpain 2 Protein, His-tagged; Capn2, His-tagged(Rat); Capn2-2632R; Capn2; calpain 2; calpain-2 catalytic subunit; CANP 2; M-calpain; calcium-activated neutral proteinase 2; calpain 2, (m/II) large subunit; calpain II; calpain M-type; calpain-2 large subunit; millimolar-calpain; EC 3.4.22.53
Gene ID	29154
mRNA Refseq	NM_017116
Protein Refseq	NP_058812
UniProt ID	Q07009
Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified Capn2.	 1. Capn2 2. BSA