

Recombinant Human CAPN2

Cat. No. CAPN2-27400TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Calpain 2 with N terminal proprietary tag; Predicted MWt 103.07.
Species	Human
Source	Wheat Germ
ProteinLength	700 amino acids
Description	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	103.070kDa inclusive of tags
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAGIAAKLAKDREAAEGLGSHERAIKYLNQDYEARNECL EAGTLFQDPSFPAIPSA LGFKELGPYSSKTRGIEWKRPT ICADPQFIIGGATRTDICQGALGDCWLLAAIASLT LNEEI LARVVPLNQSFQENYAGIFHFQFWQYGEWVEVVVDDRLPT KDGELLFVHSA EGSEFWSALLEKAYAKINGCYEALSGGAT TEGFEDFTGGIAEWYELKKPPPNLFKII QKALQKGSLLGC SIDITSAADSEAITFQKLVKGHAYSVTGAEVESNGSLQK LIRIRN PWGEVEWTGRWNDNCPSWNTIDPEERERLRRHE DGEFWMSFSDFLRHYSRLEI CNLTPDTLTSDTYKKWKLTK MDGNWRRGSTAGGCRNYPNTFWMNPQYLIKLEEE DEDEED GESGCTFLVGLIQKHRRRQRKMGEDMHTIGFGIYEVPEEL SGQTNIHLSK NFFLTNRARERSDFTFINLREVLNRFKLPPG EYILVPSTFEPNKDGDGFCIRVFSEKKAD YQAVDDEIEANL EEFDISEDDIDDGFRRLFAQLAGEDAEISAFELQILRRV LAKRQD IKSDGFSIETCKIMVDMMLSDGSGKGLGLKEFYIL WTKIQKYQKIYREIDVDRSGTMNS YEMRKALEEAGFKMPC QLHQVIVARFADDQLIIDFDNFVRCLVRLETFLKIFKQLD P ENTGTIELDLISWLCFSVL
Sequence Similarities	Belongs to the peptidase C2 family.Contains 1 calpain catalytic domain.Contains 3 EF-hand domains.
GENE INFORMATION	
Gene Name	CAPN2 calpain 2, (m/II) large subunit [Homo sapiens]
Official Symbol	CAPN2
Synonyms	CAPN2; calpain 2, (m/II) large subunit; calpain-2 catalytic subunit; CANPL2; CANPml; mCANP;

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Gene ID	824
mRNA Refseq	NM_001146068
Protein Refseq	NP_001139540
MIM	114230
Uniprot ID	P17655
Chromosome Location	1q41-q42
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; ErbB1 downstream signaling, organism-specific biosystem;
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; cysteine-type peptidase activity; cytoskeletal protein binding; peptidase activity;

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