

Recombinant Full Length Human CAPN2 Protein, GST-tagged

Cat. No. CAPN2-2820HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAPN2 full-length ORF (AAH21303.1, 1 a.a. - 700 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
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. [provided by RefSeq, Mar 2009]
Molecular Mass	106.4 kDa
AA Sequence	MAGIAAKLAKDREAAEGLGSHERAIKYLNQDYEARNECLEAGTLFQDPSFPAIPSAL GFKELGPYSSKTRGIEWKRPTICADPQFIIGGATRTDICQGALGDCWLLAAIASLTL NEEILARVVPLNQSFQENYAGIFHFQFWQYGEWVEVVDDRLPTKDGELLFVHSAE GSEFWSALLEKAYAKINGCYEALSGGATTEGFEDFTGGIAEWYELKKPPPNIKFIIQK ALQKGSLLGCSIDITSAADSEAITFQKLVKGHAYSVTGAEVEESNGSLQKLIRINPW

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GEVEWTGRWNDNCPSWNTIDPEERERLTRRHEDGEFWMSFSDFLRHYSRLEICNL
 TPDTLTSDTYKKWKLTKMDGNWRRGSTAGGCRNYPNTFWMNPQYLIKLEEEDEDE
 EDGESGCTFLVGLIQKHRRRQRKMGEDMHTIGFGIYEVPEELSGQTNIHLSKNFFLT
 NRARERSDTFINLREVLNRFKLPPGEYILVPSTFEPNKDGDGFCIRVFSEKKADYQAVD
 DEIEANLEEFDISEDDIDDGFRRLFAQLAGEDAEISAFELQTILRRVLAKRQDIKSDGF
 SIETCKIMVMDLSDGSGKLGLKEFYILWTKIQKYQKIYREIDVDRSGTMNSYEMRKA
 LEEAGFKMPCQLHQVIVARFADDQLIIDFDNFVRCLVRLETFLKIFKQLDPENTGTIEL
 DLISWLCFSVL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; CANP 2; M-calpain; calpain M-type; millimolar-calpain; calpain-2 large
 subunit; calpain 2, large subunit; calpain large polypeptide L2; calpain, large
 polypeptide L2; calpain 2, large [catalytic] subunit; calcium-activated neutral
 proteinase 2; CANP2; FLJ39928;

Gene ID

824

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mRNA Refseq	NM_001146068
Protein Refseq	NP_001139540
MIM	114230
UniProt ID	P17655

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