

Recombinant Full Length Human CAPN9 Protein, GST-tagged

Cat. No. CAPN9-2825HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAPN9 full-length ORF (BAG36389.1, 1 a.a. - 690 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	690 amino acids
Description	Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is expressed predominantly in stomach and small intestine and may have specialized functions in the digestive tract. This gene is thought to be associated with gastric cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Molecular Mass	105.4 kDa
AA Sequence	MPYLYRAPGPQAHPVPKDARITHSSGQSFEQMRQECLQRGTLFEDADFPASNSSLF YSERPQIPFVWKRPG EIVKNPEFILGGATRTDICQGELGDCWLLAAIASLT LNQKALA RVIPQDQSFGPGYAGIFHFQFWQHSEWLDVVIDDRLPTFRDRLVFLHSADHNEFWS

 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

ALLENAYAKLNGSYEALKGGSAIEAMEDFTGGVAETFQTKEAPENFYEILEKALKRG
 SLLGCFIDTRSAAESEARTPFGLIKGHAYSVTGIDQVSFRGQRIELIRINPWGQVEW
 NGSWSDSSPEWRSVGPAEQKRLCHTALDDGEFWMAFKDFKAHFDKVEICNLTPDA
 LEEDAIHKWEVTVHQGSWVRGSTAGGCRNFLDTFWTNPQIKLSLTEKDEGQEECSF
 LVALMQKDRRKLKRFGANVLTIGYAIYGCPDKDEHLNKDFFRYHASRARSKTFINLR
 EVSDRFKLPPGEYILIPSTFEPHQEADFCLRIFSEKKAITRDMDGNVDIDLPEPPKPTP
 PDQETEEEQRFRALFEQVAGEDMEVTAEELEYVLNAVLQKKKDIKFKKLSLISCKNIIS
 LMDTSGNGKLEFDEFKVFWDKCLKQWINLFLRFDADKSGTMSTYELRTALKAAGFQL
 SSHLLQLIVLRYADEELQLDFDDFLNCLVRLLENASRVFQALSTKNKEFIHLNINEFIHLT
 MNI

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

CAPN9 calpain 9 [Homo sapiens]

Official Symbol

CAPN9

Synonyms

CAPN9; calpain 9; calpain 9 (nCL 4); calpain-9; GC36; nCL 4; novel calpain large subunit 4; new calpain 4; novel calpain large subunit-4; digestive tract-specific calpain; nCL-4;

Gene ID

10753

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mRNA Refseq	NM_006615
Protein Refseq	NP_006606
MIM	606401
UniProt ID	O14815

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