

Recombinant Human CAPN9 Protein, GST-Tagged

Cat. No. CAPN9-0371H 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	Wheat Germ
Description	<p>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]</p>
Molecular Mass	105.4 kDa
AA Sequence	<p>MPYLYRAPGPQAHPVPKDARITHSSGQSFEQMRQECLQRGTLFEDADFPASNSSLF YSERPQIPFVWKRPGEIVKNPEFILGGATRTDICQGELGDCWLLAAIASLTLNQKALA RVIPQDQSFPGPYAGIFHFQFWQHSEWLDVVIDDRLPTFRDRLVFLHSADHNEFW ALLENAYAKLNGSYEALKGGSIAIEMEDFTGGVAETFQTKEAPENFYEILEKALKRG</p>

 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

SLLGCFIDTRSAAESEARTPFGLIKGHAYSVTGIDQVSFRGQRIELIRIRNPWGQVEW
 NGSWSDSSPEWRSVGPAEQKRLCHTALDDGEFWMAFKDFKAHFDKVEICNLTPDA
 LEEDAIHKWEVTVHQGSWVRGSTAGGCRNFLDTFWTNPQIKLSLTEKDEGQEECSF
 LVALMQKDRRKLKRFGANVLTIGYAIYGCPDKDEHLNKDFFRYHASRARSKTFINLR
 EVSDRFKLPPGEYILIPSTFEPHQEADFCLRIFSEKKAITRDMDGNVDIDLPEPPKPTP
 PDQETEEEQRFRALFEQVAGEDMEVTAEELEYVLNAVQLQKKKDIKFKKLSLISCKNIIS
 LMDTSGNGKLEFDEFKVFWDKDKLQWINLFLRFDADKSGTMSTYELRTALKAAGFQL
 SSHLLQLIVLRYADEELQLDFDDLNCLVRLLENASRVFQALSTKNKEFIHLNINEFIHLT
 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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