

Recombinant Human CAPN6 Protein, GST-Tagged

Cat. No. CAPN6-0368H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAPN6 full-length ORF (BAG35579.1, 1 a.a. - 641 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis. [provided by RefSeq, Nov 2009]
Molecular Mass	101 kDa
AA Sequence	MGPPCLKLFKNQKYQELKQECIKDSRLFCDPFTLPENDSLFYNRLLPGKVWVKRPQDI CDDPHLIVGNISNHQLTQGRLGHKPMVSAFSCLAQVQESHWTKTIPNHKEQEWDPQK TEKYAGIFHFRFWHFGWTEVVDDLLPTINGDLVFSFSTSMNEFWNALLEKAYAKLL

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GCYEALDGLTITDIIVDFTGTLAETVDMQKGRYTELVEEKYKLFGEYKTFTKGGLICC
 SIESPNQEEQEVETDWGLLKGHYTYMTDIRKIRLGERLVEVFSAEKVYMVRLRNPLG
 RQEWSGPWSEISEEWQQLTASDRKNLGLVMSDDGEFWMSLEDFCRNFHKLNVCR
 NVNNPIFGRKELESVLGCWTVDDDPLMNRSGGCYNNRDTFLQNPQYIFTVPEDGHK
 VIMSLQQKDLRTYRRMGRPDNYIIGFELFKVEMNRKFRLHHLIYIQUERAGTSTYIDTRT
 VFLSKYLKKGNVVLVPTMFQHGRTSEFLLRIFSEVPVQLRELTLDMPKMSCWNLAR
 GYLKVVVTQITVHSAEDLEKKYANETVNPYLVKICGKEEVRSPVQKNTVHAIFDTQAIF
 YRRTTDIPIIVQVWNSRKFCQFLGQVTLADPSCDCRDLKSLYLKKGKGGPTAKVKQG
 HISFKVISSDDLTEL

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 CAPN6 calpain 6 [Homo sapiens]

Official Symbol CAPN6

Synonyms CALP M; Calpain-6; Calpain-like protease X-linked; Calpamodulin; CALPM;
 CAN6_HUMAN; CANP X; CANPX; CAPN 6; CAPN6

Gene ID 827

mRNA Refseq NM_014289

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Protein Refseq	NP_055104
MIM	300146
UniProt ID	Q9Y6Q1

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