

Recombinant Human CAPN10 cell lysate

Cat. No. CAPN10-276HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

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 catalytic subunit has four domains: domain I, the N-terminal regulatory domain that is processed upon calpain activation; domain II, the protease domain; domain III, a linker domain of unknown function; and domain IV, the calmodulin-like calcium-binding domain. This gene encodes a large subunit. It is an atypical calpain in that it lacks the calmodulin-like calcium-binding domain and instead has a divergent C-terminal domain. It is similar in organization to calpains 5 and 6. This gene is associated with type 2 or non-insulin-dependent diabetes mellitus (NIDDM) and located within the NIDDM1 region. Multiple alternative transcript variants encoding different isoforms have been described for this gene.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;


GENE INFORMATION

Gene Name

CAPN10 calpain 10 [Homo sapiens]

 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

Official Symbol	CAPN10
Synonyms	CAPN10; calpain 10; calpain-10; calpain-like protease CAPN10; calcium-activated neutral proteinase 10; CANP10; NIDDM1;
Gene ID	11132
mRNA Refseq	NM_023083
Protein Refseq	NP_075571
MIM	605286
UniProt ID	Q9HC96
Chromosome Location	2q37.3
Pathway	Integrin-mediated cell adhesion, organism-specific biosystem;
Function	SNARE binding; calcium-dependent cysteine-type endopeptidase activity; cytoskeletal protein binding; peptidase activity;

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