

## Recombinant Human CAPN10 Protein, GST-tagged

**Cat. No.** CAPN10-29H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Human CAPN10(1 a.a. - 672 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 1 a.a. - 672 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Calpains represent a 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 is located within the NIDDM1 region. Multiple alternative transcript variants have been described for this gene. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 101.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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**AA Sequence**

MRAGRGATPARELFRDAAFPAAADSSLFCDLSTPLAQFREDITWRRPQEICATPRLFP  
DDPREGQVKQGLLGDCWFLCACAALQKSRHLLDQVIPPGQPSWADQEYRGSFTCR  
IWQFGRWVEVTTDDRPLCLAGRLCFSRCQREDVFWLPLEKVYAKVHGSYEHLWA  
GQVADALVDLTGGLAERWNLKGVAGSGGQQDRPGRWEHRTCRQLLHLKDQCLIS  
CCVLSPRAGARELGEFHAFIVSDLRELQGQAGQCILLRIQNPWGRRCWQGLWRE  
GGEGWSQVDAAVASELLSQLQEGEFWVEEEFLREFDELTVGYPVTEAGHLQSLY  
TERLLCHTRALPGAWVKGQSAGGCRNNSGFPSNPKFWLRVSEPSEVYIAVLQRSR  
LHAADWAGRARALVGDSHTSWSPASIPGKHYQAVGLHLWKVEKRRVNLPRVLSMP  
PVAGTACHAYDREVHLRCELSPGYYLAVPSTFLKDAPGEFLLRVFSTGRVSLSAIRA  
VAKNTTPGAALPAGEWGTVQLRGSWRVGQTAGGSRNFASYPTNPCFPFSVPEGP  
GPRCVRITLHQHCRPSDTEFHPIGFHIFQVPEGGRSQDAPLLLQEPLLSCVPHRYA  
QEVSRCLLLPAGTYKVVPSTYLPDTEGAFTVTIATRDRPSIHSQEMLGQFLQEVSM  
AVMKT

**Applications**

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

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

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

**GENE INFORMATION**
**Gene Name**

CAPN10 calpain 10 [ Homo sapiens ]

**Official Symbol**

CAPN10

**Synonyms**

CAPN10; calpain 10; calpain-10; calpain-like protease CAPN10; calcium-activated  
neutral proteinase 10; CANP10; NIDDM1;

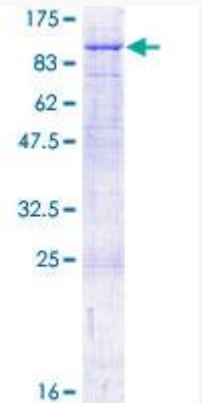
**Gene ID**

11132

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|                                                                                     |           |
|-------------------------------------------------------------------------------------|-----------|
| <b>mRNA Refseq</b>                                                                  | NM_023083 |
| <b>Protein Refseq</b>                                                               | NP_075571 |
| <b>MIM</b>                                                                          | 605286    |
| <b>UniProt ID</b>                                                                   | Q9HC96    |
|  |           |

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