



CAPN10 peptide (DAG-P1434)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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. [provided by RefSeq, Sep 2010]

Specificity	Ubiquitous.
Purity	> 95 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	ELISA, WB
Sequence Similarities	Belongs to the peptidase C2 family. Contains 1 calpain catalytic domain.
Format	Liquid
Buffer	Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75

GENE INFORMATION

Gene Name	CAPN10 calpain 10 [Homo sapiens (human)]
Official Symbol	CAPN10
Synonyms	CAPN10; calpain 10; CANP10; NIDDM1; calpain-10; calpain-like protease CAPN10; calcium-activated neutral proteinase 10;
Entrez Gene ID	11132
mRNA Refseq	NM_023083.3
Protein Refseq	NP_075571.1
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;