



## CAPN3 peptide (DAG-P0227)

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

### PRODUCT INFORMATION

<b>Antigen Description</b>	Calpain, a heterodimer consisting of a large and a small subunit, is a major intracellular protease, although its function has not been well established. This gene encodes a muscle-specific member of the calpain large subunit family that specifically binds to titin. Mutations in this gene are associated with limb-girdle muscular dystrophies type 2A. Alternate promoters and alternative splicing result in multiple transcript variants encoding different isoforms and some variants are ubiquitously expressed. [provided by RefSeq, Jul 2008]
<b>Specificity</b>	Isoform I is skeletal muscle specific.
<b>Purity</b>	> 95 % by SDS-PAGE.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB
<b>Sequence Similarities</b>	Belongs to the peptidase C2 family.Contains 1 calpain catalytic domain.Contains 4 EF-hand domains.
<b>Format</b>	Liquid
<b>Buffer</b>	Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75
<b>Preservative</b>	None
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">CAPN3 calpain 3, (p94) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CAPN3
<b>Synonyms</b>	CAPN3; calpain 3, (p94); p94; CANP3; LGMD2; nCL-1; CANPL3; LGMD2A; calpain-3; calpain L3; new calpain 1; calpain, large polypeptide L3; calcium-activated neutral proteinase 3; calpain p94, large [catalytic] subunit; muscle-specific calcium-activated neutral protease 3 large subunit;
<b>Entrez Gene ID</b>	<a href="#">825</a>
<b>mRNA Refseq</b>	<a href="#">NM_000070.2</a>
<b>Protein Refseq</b>	<a href="#">NP_000061.1</a>
<b>UniProt ID</b>	P20807
<b>Chromosome Location</b>	15q15.1
<b>Pathway</b>	Integrin-mediated cell adhesion, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem;
<b>Function</b>	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; calcium-dependent cysteine-type endopeptidase activity; calcium-dependent cysteine-type endopeptidase activity; catalytic activity; cysteine-type peptidase activity; ligase regul