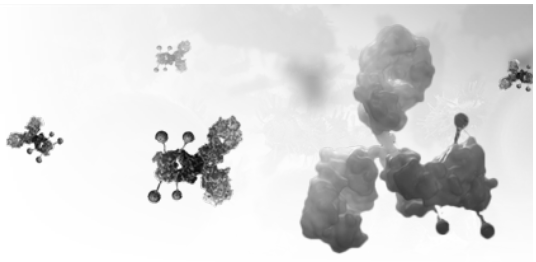

Rat CAPN2 peptide (DAG-P1404)

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

PRODUCT INFORMATION

Antigen Description	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5 UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
Specificity	Ubiquitous.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the peptidase C2 family.Contains 1 calpain catalytic domain.Contains 3 EF-hand domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	CAPN2 calpain 2, (m/II) large subunit [Homo sapiens (human)]
Official Symbol	CAPN2
Synonyms	CAPN2; calpain 2, (m/II) large subunit; CANP2; mCANP; CANPL2; CANPml; calpain-2 catalytic

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	subunit; CANP 2; M-calpain; calpain M-type; millimolar-calpain; calpain-2 large subunit; calpain 2, large subunit; calpain large polypeptide L2; calpain, large polypeptide L2; calpain 2, large [catalytic] subunit; calcium-activated neutral proteinase 2;
Entrez Gene ID	824
mRNA Refseq	NM_001146068.1
Protein Refseq	NP_001139540.1
UniProt ID	B4DN77
Chromosome Location	1q41-q42
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Alzheimers Disease, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; ErbB1 downstream signaling, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Integrin-mediated cell adhesion, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein proces
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; calcium-dependent cysteine-type endopeptidase activity; cysteine-type peptidase activity; cytoskeletal protein binding; protein binding; protein heterodimerization activity;

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