



CAPNS1 peptide (DAG-P1425)

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

PRODUCT INFORMATION

Antigen Description	Calpains are a ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. Calpain families have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. Calpain I and II are heterodimeric with distinct large subunits associated with common small subunits, all of which are encoded by different genes. This gene encodes a small subunit common to both calpain I and II and is associated with myotonic dystrophy. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]
Specificity	Expressed predominantly in stomach.
Purity	> 95 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	ELISA, WB
Sequence Similarities	Belongs to the peptidase C2 family.Contains 1 calpain catalytic domain.Contains 3 EF-hand domains.
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	CAPNS1 calpain, small subunit 1 [Homo sapiens (human)]
Official Symbol	CAPNS1
Synonyms	CAPNS1; calpain, small subunit 1; 30K; CANP; CDPS; CSS1; CANPS; CAPN4; CALPAIN4; calpain small subunit 1; CANP small subunit; calpain regulatory subunit; calpain, small polypeptide; calpain 4, small subunit (30K); calcium-dependent protease, small subunit; calcium-dependent protease small subunit 1; calcium-activated neutral proteinase small subunit;
Entrez Gene ID	826
mRNA Refseq	NM_001003962.1
Protein Refseq	NP_001003962.1
UniProt ID	P04632
Chromosome Location	19q13.12
Pathway	Apoptosis Modulation and Signaling, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Integrin-mediated cell adhesion, organism-specific biosystem;
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; protein binding;