



CAST peptide (DAG-P1405)

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

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jun 2010]
Purity	> 95 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	ELISA, WB
Sequence Similarities	Belongs to the protease inhibitor I27 (calpastatin) family.
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 [CAST calpastatin \[Homo sapiens \(human\) \]](#)

Official Symbol	CAST
Synonyms	CAST; calpastatin; BS-17; calpain inhibitor; sperm BS-17 component;
Entrez Gene ID	831
mRNA Refseq	NM_001042440.3
Protein Refseq	NP_001035905.1
UniProt ID	P20810
Chromosome Location	5q15
Function	cysteine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity; poly(A) RNA binding; protein binding;