



## CAPN9 peptide (DAG-P1424)

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

### PRODUCT INFORMATION

<b>Antigen Description</b>	Calpains are 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 subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is expressed predominantly in stomach and small intestine and may have specialized functions in the digestive tract. This gene is thought to be associated with gastric cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
<b>Specificity</b>	Expressed predominantly in stomach.
<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 3 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

Gene Name	<a href="#">CAPN9 calpain 9 [ Homo sapiens (human) ]</a>
Official Symbol	CAPN9
Synonyms	CAPN9; calpain 9; GC36; nCL-4; calpain-9; new calpain 4; novel calpain large subunit-4; digestive tract-specific calpain;
Entrez Gene ID	<a href="#">10753</a>
mRNA Refseq	<a href="#">NM_006615.2</a>
Protein Refseq	<a href="#">NP_006606.1</a>
UniProt ID	O14815
Chromosome Location	1q42.11-q42.3
Pathway	Integrin-mediated cell adhesion, organism-specific biosystem;
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity;