



Cathepsin G Antigen (DAG-T1231)

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

PRODUCT INFORMATION

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| Antigen Description | <p>Cathepsin G (EC 3.4.21.20, chymotrypsin-like proteinase, neutral proteinase) is an enzymatic protein belonging to the peptidase or protease families. In humans, it is coded by the CTSG gene.</p> <p>The protein encoded by this gene, a member of the peptidase S1 protein family, is found in azurophilic granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation. Transcript variants utilizing alternative polyadenylation signals exist for this gene.</p> |
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| Size | 0.20 mg |
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| Preservative | None |
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GENE INFORMATION

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| Gene Name | CTSG cathepsin G [Homo sapiens] |
| Official Symbol | CTSG |
| Synonyms | CTSG; cathepsin G; CG; CATG; MGC23078; |
| Entrez Gene ID | 1511 |
| mRNA Refseq | NM_001911 |
| Protein Refseq | NP_001902 |
| UniProt ID | P08311 |
| Chromosome Location | 14q12 |

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| Pathway | ACE Inhibitor Pathway; Activation of Matrix Metalloproteinases; Amoebiasis; Amoebiasis; Degradation of the extracellular matrix; Diabetes pathways; Disease |
| Function | heparin binding; peptidase activity; serine-type endopeptidase activity; |
| References | CTSG;cathepsin G;CG;CATG;MGC23078;NP_001902;NM_001911;P08311;OTTHUMP00000178752;EC 3.4.21.20;EC 3.4.21;HGNC: 2532;Entrez Gene: 1511;Ensembl: ENSG00000100448;OMIM: 116830;UniProtKB: P08311;CATG_HUMAN; |