# CTSE Antibody (Center) Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | CTSE, Blocking Peptide |
| **Full Product Name** | CTSE Antibody (Center) Blocking Peptide |
| **Product Gene Name** | CTSE blocking peptide |
| **Product Synonym Names** | Cathepsin E; Cathepsin E form I; Cathepsin E form II; CTSE |
| **Form/Format** | Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml. |
| **Specificity** | The synthetic peptide sequence used to generate the antibody was selected from the Center region of human CTSE. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Antibody/Peptide Pairs** | CTSE peptide (MBS9226162) is used for blocking the activity of CTSE antibody (MBS9203958) |
| **Molecular Weight** | 39,553 Da |
| **OMIM** | 116890 |
| **Cellular Location** | Endosome. Note: The proenzyme is localized to the endoplasmic reticulum and Golgi apparatus, while the mature enzyme is localized to the endosome |
| **Tissue Location** | Expressed abundantly in the stomach, the Clara cells of the lung and activated B-lymphocytes, and at lower levels in lymph nodes, skin and spleen. Not expressed in resting B- lymphocytes. |
| **Related Product Information for CTSE blocking peptide** | May have a role in immune function. Probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation. May play a role in activation-induced lymphocyte depletion in the thymus, and in neuronal degeneration and glial cell activation in the brain. |
| **Other Notes** | Small volumes of CTSE blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CTSE purchase** | MBS9226162 is a blocking peptide targeting CTSE. Also known as CTSE Antibody (Center) Blocking Peptide. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTSE. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 46397366 |
| **NCBI GeneID** | 1510 |
| **NCBI Accession #** | P14091.2 |
| **UniProt Primary Accession #** | P14091 |
| **UniProt Secondary Accession #** | Q5TZ01; Q5TZ02; Q9NY58; Q9UCE3; Q9UCE4 |
| **UniProt Related Accession #** | P14091 |
| **NCBI Official Full Name** | Cathepsin E |
| **NCBI Official Synonym Full Names** | cathepsin E |
| **NCBI Official Symbol** | CTSE |

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| **NCBI Official Synonym Symbols** | CATE |
| **UniProt Protein Name** | Cathepsin E |
| **Protein Family** | Cathepsin |
| **UniProt Gene Name** | CTSE |
| **UniProt Entry Name** | CATE_HUMAN |
| **NCBI Protein Information** | cathepsin E |
| **NCBI Summary for CTSE** | This gene encodes a member of the A1 family of peptidases. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme, an aspartic endopeptidase, may be involved in antigen processing and the maturation of secretory proteins. Elevated expression of this gene has been observed in neurodegeneration. [provided by RefSeq, Nov 2015] |
| **UniProt Comments for CTSE** | CTSE: May have a role in immune function. Probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation. May play a role in activation-induced lymphocyte depletion in the thymus, and in neuronal degeneration and glial cell activation in the brain. Belongs to the peptidase A1 family. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Protease; EC 3.4.23.34<br><br>Chromosomal Location of Human Ortholog: 1q31<br><br>Cellular Component: endosome<br><br>Molecular Function: aspartic-type endopeptidase activity<br><br>Biological Process: antigen processing and presentation of exogenous peptide antigen via MHC class II; digestion; protein catabolic process |
| **Research Articles on CTSE** | **1.** Cathepsin E, mitochondrial fission, and caspase activation/apoptosis are linked in the pathogenesis of pulmonary emphysema. |
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