

## Rabbit Cathepsin E/CTSE Polyclonal Antibody | anti-CTSE antibody

Anti-Cathepsin E/CTSE Antibody

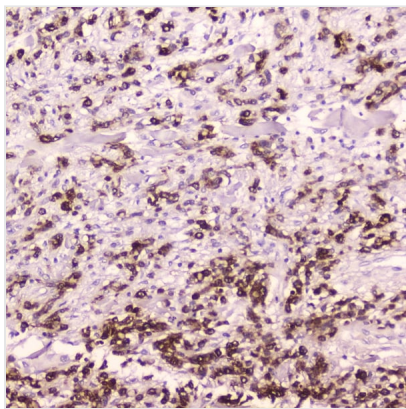
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA124960 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

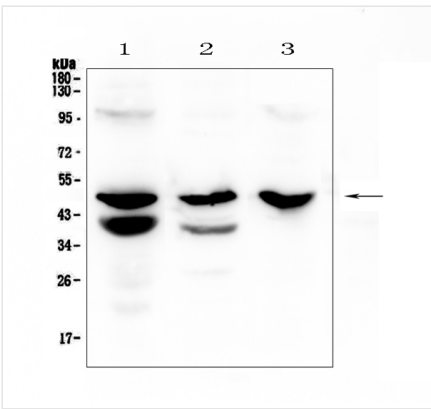
Cathepsin E/CTSE; Polyclonal Antibody; Anti-Cathepsin E/CTSE Antibody; Cathepsin E; Cathepsin E form I; Cathepsin E form II; CTSE; anti-CTSE antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                             |
| Clonality                                      | Polyclonal                                                                                                                                                                                                    |
| Isotype                                        | IgG                                                                                                                                                                                                           |
| Specificity                                    | No cross reactivity with other proteins.                                                                                                                                                                      |
| Purity/Purification                            | Immunogen Affinity Purified                                                                                                                                                                                   |
| Form/Format                                    | Lyophilized                                                                                                                                                                                                   |
| Sequence Length                                | 363                                                                                                                                                                                                           |
| Applicable Applications for anti-CTSE antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                          |
| Immunogen                                      | E Coli-derived human Cathepsin E recombinant protein (Position: A150-R393).                                                                                                                                   |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                          |
| Relevant Detection Systems                     | It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.                                         |
| Preparation and Storage                        | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time.<br>Avoid repeated freezing and thawing. |



**IHC (Immunohistochemistry)**  
Figure 3. IHC analysis of Cathepsin E using anti-Cathepsin E antibody. Cathepsin E was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/mL rabbit anti-Cathepsin E antibody. Cathepsin E was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/mL rabbit anti-Cathepsin E Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



**WB (Western Blot)**  
Figure 1. Western blot analysis of Cathepsin E using anti-Cathepsin E antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat stomach tissue lysates, Lane 2: mouse stomach tissue lysates, Lane 3: mouse SP20 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cathepsin E antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cathepsin E at approximately 48KD. The expected band size for Cathepsin E is at 43KD.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CTSE antibody | <p>Description: Rabbit IgG polyclonal antibody for Cathepsin E detection. Tested with WB, IHC-P, ELISA (Cap) in Human; Mouse; Rat.</p> <p>Background: Cathepsin E is an enzyme that in humans is encoded by the CTSE gene. 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.</p> |
| References                                         | <p>1. Azuma T, Pals G, Mohandas TK, Couvreur JM, Taggart RT (October 1989). "Human gastric cathepsin E. Predicted sequence, localization to chromosome 1, and sequence homology with other aspartic proteinases". The Journal of Biological Chemistry. 264 (28): 16748-53. 2. Couvreur JM, Azuma T, Miller DA, Rocchi M, Mohandas TK, Boudi FA, Taggart RT (Aug 1990). "Assignment of cathepsin E (CTSE) to human chromosome region 1q31 by in situ hybridization and analysis of somatic cell hybrids". Cytogenetics and Cell Genetics. 53 (2-3): 137-9.</p>                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 955471905                                      |
| NCBI GeneID                      | 1510                                           |
| NCBI Accession #                 | NP_001304260.1                                 |
| NCBI GenBank Nucleotide #        | NM_001317331.1                                 |
| UniProt Accession #              | P14091; Q5TZ01; Q5TZ02; Q9NY58; Q9UCE3; Q9UCE4 |
| Molecular Weight                 | 39,553 Da                                      |
| NCBI Official Full Name          | cathepsin E isoform c                          |
| NCBI Official Synonym Full Names | cathepsin E                                    |
| NCBI Official Symbol             | CTSE                                           |

|                               |             |
|-------------------------------|-------------|
| NCBI Official Synonym Symbols | CATE        |
| NCBI Protein Information      | cathepsin E |
| UniProt Protein Name          | Cathepsin E |
| UniProt Gene Name             | CTSE        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cathepsin-e-ctse-antibody-immunohistochemistry-western-blot-elisa/124960>