10320 Camino Santa Fe, Suite G
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CTSE Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6568c

Specification

CTSE Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P14091
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**157-187**

CTSE Antibody (Center) - Additional Information

Gene ID 1510

Other Names
Cathepsin E, Cathepsin E form I, Cathepsin E form II, CTSE

Target/Specificity
This CTSE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 157-187 amino acids from the Central region of human CTSE.

Dilution
WB~~1:2000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CTSE Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CTSE Antibody (Center) - Protein Information

Name CTSE

Function 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.

Cellular Location
Endosome. Note=The proenzyme is localized to the endoplasmic reticulum and Golgi apparatus, while the mature enzyme is localized to the endosome

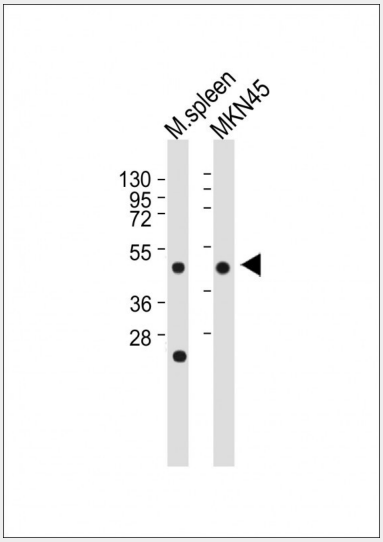
Tissue Location
Expressed abundantly in the stomach, the Clara cells of the lung and activated B-lymphocytes, and at lower levels in lymph nodes, skin and spleen. Not expressed in resting B-lymphocytes

CTSE Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

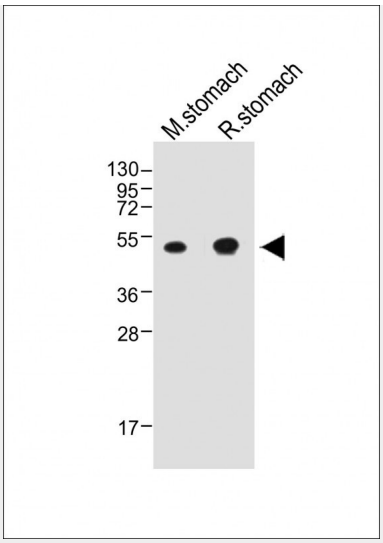
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CTSE Antibody (Center) - Images

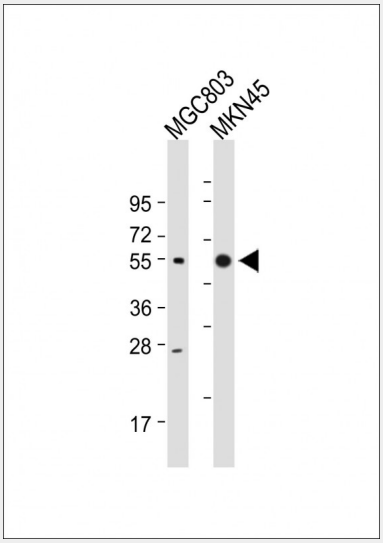


All lanes : Anti-CTSE Antibody (Center) at 1□500-1□2000 dilution Lane 1: Mouse spleen whole tissue lysate Lane 2: MKN45 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1□10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

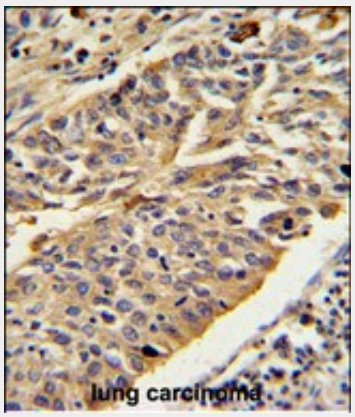
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All lanes : Anti-CTSE Antibody (Center) at 1:2000 dilution Lane 1: Mouse stomach whole tissue lysate Lane 2: Rat stomach whole tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

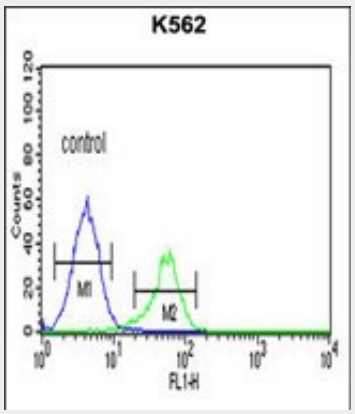


All lanes : Anti-CTSE Antibody (Center) at 1:2000 dilution Lane 1: MGC803 whole cell lysate Lane 2: MKN45 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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CTSE Antibody (Center) (Cat. #AP6568c) IHC analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CTSE Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



CTSE Antibody (Center) (Cat. #AP6568c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CTSE Antibody (Center) - Background

CTSE is a gastric aspartyl protease that functions as a disulfide-linked homodimer. This protease, which is a member of the peptidase C1 family, has a specificity similar to that of pepsin A and cathepsin D. It is an intracellular proteinase that does not appear to be involved in the digestion of dietary protein and is found in highest concentration in the surface of epithelial mucus-producing cells of the stomach. It is the first aspartic proteinase expressed in the fetal stomach and is found in more than half of gastric cancers. It appears, therefore, to be an oncofetal antigen.

CTSE Antibody (Center) - References

Caruso,M., Virchows Arch. 454 (3), 291-302 (2009)
Burster,T., Biochem. Biophys. Res. Commun. 377 (4), 1299-1303 (2008)