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CTSC / Cathepsin C / JP Antibody (aa238-252)

Goat Polyclonal Antibody
Catalog # ALS16100

Specification

CTSC / Cathepsin C / JP Antibody (aa238-252) - Product Information

Application	**IHC**
Primary Accession	P53634
Reactivity	**Human, Monkey**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**52kDa KDa**

CTSC / Cathepsin C / JP Antibody (aa238-252) - Additional Information

Gene ID 1075

Other Names
Dipeptidyl peptidase 1, 3.4.14.1, Cathepsin C, Cathepsin J, Dipeptidyl peptidase I, DPP-I, DPPI, Dipeptidyl transferase, Dipeptidyl peptidase 1 exclusion domain chain, Dipeptidyl peptidase I exclusion domain chain, Dipeptidyl peptidase 1 heavy chain, Dipeptidyl peptidase I heavy chain, Dipeptidyl peptidase 1 light chain, Dipeptidyl peptidase I light chain, CTSC, CPPI

Target/Specificity
Human CTSC / Cathepsin C / JP. This antibody is expected to recognize isoform a (NP_001805.3) only.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
CTSC / Cathepsin C / JP Antibody (aa238-252) is for research use only and not for use in diagnostic or therapeutic procedures.

CTSC / Cathepsin C / JP Antibody (aa238-252) - Protein Information

Name CTSC

Synonyms CPPI

Function
Thiol protease (PubMed:1586157). Has dipeptidylpeptidase activity (PubMed:1586157). Active against a broad range of dipeptide substrates composed of both polar and hydrophobic amino acids (PubMed:1586157). Proline cannot occupy the P1 position and arginine cannot occupy the P2 position of the substrate (PubMed:1586157).

Can act as both an exopeptidase and endopeptidase (PubMed:1586157). Activates serine proteases such as elastase, cathepsin G and granzymes A and B (PubMed:8428921).

Cellular Location
Lysosome.

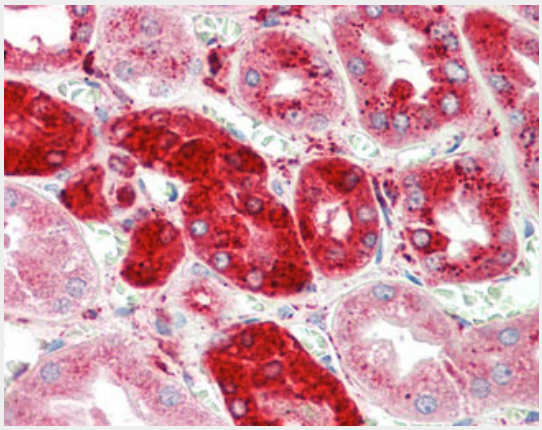
Tissue Location
Ubiquitous. Highly expressed in lung, kidney and placenta. Detected at intermediate levels in colon, small intestine, spleen and pancreas.

CTSC / Cathepsin C / JP Antibody (aa238-252) - Protocols

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

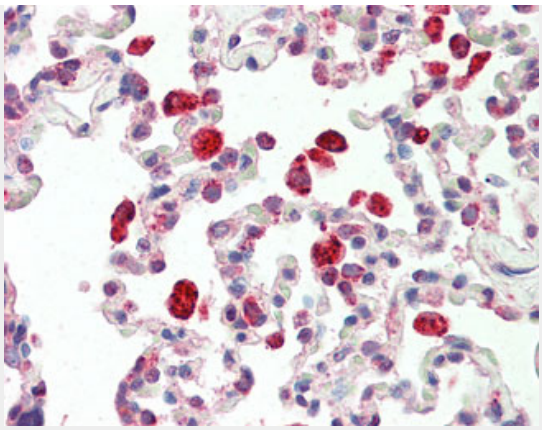
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CTSC / Cathepsin C / JP Antibody (aa238-252) - Images



Anti-CTSC / Cathepsin C / JP antibody IHC staining of human kidney.

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Anti-CTSC / Cathepsin C / JP antibody IHC staining of human lung.

CTSC / Cathepsin C / JP Antibody (aa238-252) - Background

Thiol protease. Has dipeptidylpeptidase activity. Active against a broad range of dipeptide substrates composed of both polar and hydrophobic amino acids. Proline cannot occupy the P1 position and arginine cannot occupy the P2 position of the substrate. Can act as both an exopeptidase and endopeptidase. Activates serine proteases such as elastase, cathepsin G and granzymes A and B. Can also activate neuraminidase and factor XIII.

CTSC / Cathepsin C / JP Antibody (aa238-252) - References

Paris A.,et al.FEBS Lett. 369:326-330(1995).
Rao N.V.,et al.J. Biol. Chem. 272:10260-10265(1997).
Allende L.M.,et al.Hum. Mutat. 17:152-153(2001).
Allende L.M.,et al.Mol. Genet. Metab. 79:146-148(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).