10320 Camino Santa Fe, Suite G
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CTSD / Cathepsin D Antibody (clone 4G2)

Mouse Monoclonal Antibody
Catalog # ALS12547

Specification

CTSD / Cathepsin D Antibody (clone 4G2) - Product Information

Application	**IHC, WB**
Primary Accession	P07339
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**45kDa KDa**

CTSD / Cathepsin D Antibody (clone 4G2) - Additional Information

Gene ID 1509

Other Names
Cathepsin D, 3.4.23.5, Cathepsin D light chain, Cathepsin D heavy chain, CTSD, CPSD

Reconstitution & Storage
Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions
CTSD / Cathepsin D Antibody (clone 4G2) is for research use only and not for use in diagnostic or therapeutic procedures.

CTSD / Cathepsin D Antibody (clone 4G2) - Protein Information

Name CTSD

Synonyms CPSD

Function
Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation (PubMed:27333034). Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

Cellular Location
Lysosome. Melanosome. Secreted, extracellular space. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In aortic samples, detected as an extracellular protein loosely bound to the matrix (PubMed:20551380)

Tissue Location
Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530).

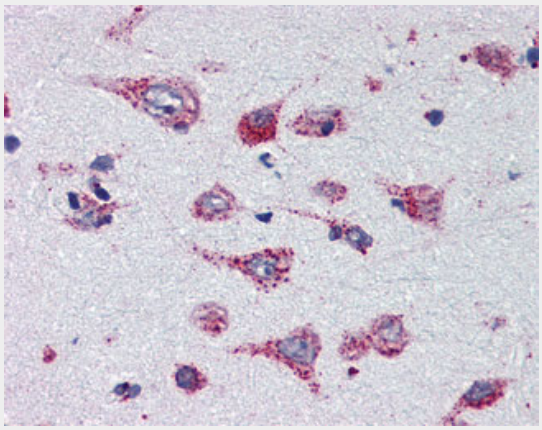
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CTSD / Cathepsin D Antibody (clone 4G2) - Protocols

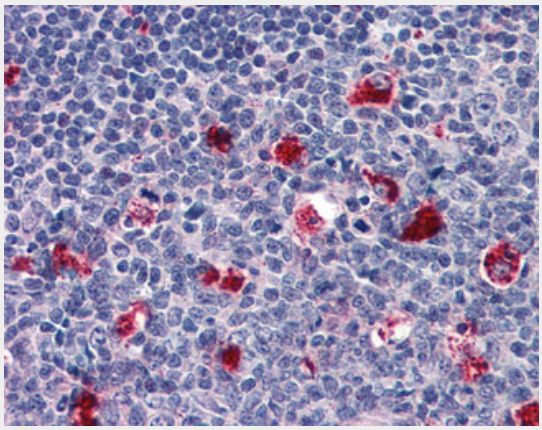
Provided below are standard protocols that you may find useful for product applications.

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

CTSD / Cathepsin D Antibody (clone 4G2) - Images

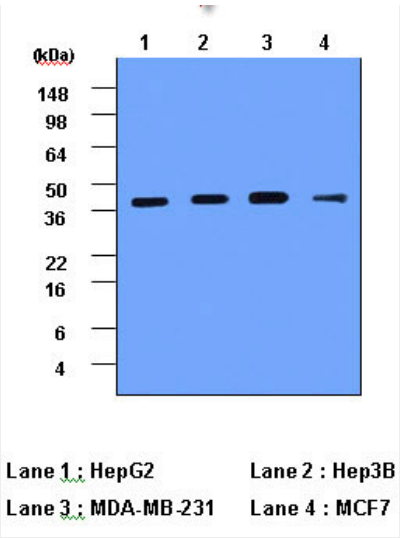


Anti-Cathepsin D antibody IHC of human brain, cortex.



Anti-Cathepsin D antibody IHC of human tonsil.

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Cell lysates of HepG2, Hep3B, MDA-MB-231 and MCF7 (each 20 ug) were resolved by SDS-PAGE,...

CTSD / Cathepsin D Antibody (clone 4G2) - Background

Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

CTSD / Cathepsin D Antibody (clone 4G2) - References

Faust P.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 82:4910-4914(1985).
Westley B.R.,et al.Nucleic Acids Res. 15:3773-3786(1987).
Redecker B.,et al.DNA Cell Biol. 10:423-431(1991).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
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