PRODUCT INFORMATION

Catalog number ACH0627

Clone No. 4G2

Product type Monoclonal Antibody

UnitProt No. P07339

NCBI Accession No. NP_001900

Alternative Names

CTSD, CPSD, Cathepsin D, Lysosomal aspartyl protease, CLN10, Ceroid-lipofuscinosis, Neuronal 10

PRODUCT SPECIFICATION

Antibody Host Mouse

Reacts With Human

Concentration 1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Cathepsin D (21-412 aa) purified from E. coli

lsotype

lgG2b kappa

Purification Note By protein-G affinity chromatography

Application

ELISA, WB, IHC

Usage

The antibody has been tested by ELISA, Western blot and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

For research use only. This product is not intended or approved for human, diagnostics or veterinary use. Website: www.nkmaxbio.com email: supportbio@nkmax.com



Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

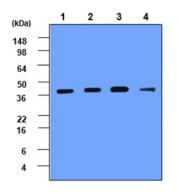
The aspartic protease cathepsin D is one of the major proteolytic enzymes in lysosomes. The cathepsin D gene locates on chromosome 11p15. 5 and spans approximately 11 kb with nine exons. Initially synthesized as an inactive precursor of pro-cathepsin D, the enzyme is subsequently converted to its active forms by proteolytic processing. Breast cancer cells, unlike normal cells, secrete high levels of pro-cathepsin D

General References

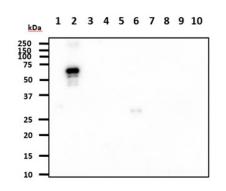
Tang,J. (1979) Mol. Cell. Biochem. 26, 93-109. Fujita, H et al., (1991) Biochem. Biophys. Res. Commun. 179, 190-196. Fusek, M et al., (2005) Biomed Papers 149, 43-50. Garcia,M et al., (1996) Stem Cells 14, 642-650.

DATA

Western blot analysis (WB)



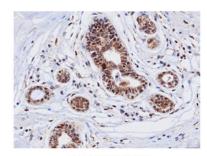
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cathepsin D antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HepG2 cell lysate Lane 2.: Hep3B cell lysate Lane 3.: MDA-MB-231 cell lysate Lane 4.: MCF7 cell lysate



The recombinant proteins (100ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cathepsin D antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : Recombinant Human CTSB Lane 2. : Recombinant Human CTSD Lane 3. : Recombinant Human CTSE Lane 4. : Recombinant Human CTSF Lane 5. : Recombinant Human CTSH Lane 6. : Recombinant Human CTSK Lane 7. : Recombinant Human CTSL Lane 8. : Recombinant Human CTSS Lane 9. : Recombinant Human CTSW Lane 10. : Recombinant Human CTSZ

Immunohistochemistry (IHC)

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Human breast lobule

Paraffin embedded sections of human breast lobule tissue were incubated with anti-human Cathepsin D (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)

