



Product Information Sheet

Monoclonal Anti-Cathepsin D

Catalogue No. MA1013

Lot No. 08A12

Clone: CP-D13

Ig type: mouse IgG2a

Size: 100µg/vial

Specificity

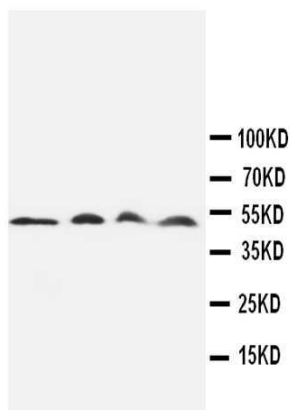
Human.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)



Lane 1 : Rat Heart tissue Lysate

Lane 2 : Rat brain tissue Lysate

Lane 3 : MM453 Whole Cell Lysate

Lane 4 : HeLa Whole Cell Lysate

Immunogen

Human liver cathepsin D.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 0.5-1µg/ml with the appropriate system to detect cathepsin D in cells and tissues.

Immunohistochemistry(P)

At 1-2µg/ml to detect cathepsin D in formalin fixed and paraffin embedded tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

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BACKGROUND

Cathepsin D is one of the lysosomal proteinases. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. Cathepsin D is mapped to chromosome 11. The amino acid sequence predicted from the cDNA sequence shows that human cathepsin D consists of 412 amino acids with 20 and 44 amino acids in a pre- and a prosegment, respectively

REFERENCE

- 1 Hasilik, A.; von Figura, K.; Grzeschik, K.-H. : Assignment of a gene for human cathepsin D to chromosome 11. (Abstract) *Cytogenet. Cell Genet.* 32: 284 only, 1982.
- 2 Qin, S.; Nakai, H.; Byers, M. G.; Eddy, R. L.; Haley, L. L.; Henry, W. M.; Wang, X.; Watkins, P. C.; Chirgwin, J. M.; Shows, T. B. : Mapping FSHB, CAT, and CTSD to specific sites on 11p. (Abstract) *Cytogenet. Cell Genet.* 46: 678 only, 1987.
- 3 Faust, P. L.; Kornfeld, S.; Chirgwin, J. M. : Cloning and sequence analysis of cDNA for human cathepsin D. *Proc. Nat. Acad. Sci.* 82: 4910-4914, 1985.