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## Product Information Sheet

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### Monoclonal Anti-Cathepsin L (Sepharose Bead Conjugate)

**Catalogue No.** MA1014-S

**Immunogen**

Procathepsin L isolated from the human lung cancer cell line EPLC 32M1.

**Lot No.** 08A12

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Clone:** CP-L14

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub>a<sub>3</sub> preservative.

**Ig type:** mouse IgG1

**Storage**

Store at 4°C for frequent use.

**Size:** 200µl

**Description:**

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Recommended application**

*Immunoprecipitation(IP)*

### BACKGROUND

Cathepsin L is a lysosomal cysteine proteinase with a major role in intracellular protein catabolism. It also shows the most potent collagenolytic and elastinolytic activity in vitro of any of the cathepsins. Cathepsin L has been implicated in pathologic processes including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. Human liver cathepsin L consists of a heavy chain of about 25 kD and a light chain of about 5 kD. The gene is mapped to 9q21-q22. Cathepsin L is required for endothelial progenitor cell-induced neovascularization.

### REFERENCE

- 1 Fan, Y.-S.; Byers, M. G.; Eddy, R. L.; Joseph, L.; Sukhatme, V.; Chan, S.-J.; Shows, T. B. : Cathepsin L (CTSL) is located in the chromosome 9q21-q22 region: a related sequence is located on chromosome 10. (Abstract) *Cytogenet. Cell Genet.* 51: 996 only, 1989.
- 2 Urbich, C.; Heeschen, C.; Aicher, A.; Sasaki, K.; Bruhl, T.; Farhadi, M. R.; Vajkoczy, P.; Hofmann, W. K.; Peters, C.; Pennacchio, L. A.; Abolmaali, N. D.; Chavakis, E.; Reinheckel, T.; Zeiher, A. M.; Dimmeler, S. : Cathepsin L is required for endothelial progenitor cell-induced neovascularization. *Nature Med.* 11: 206-213, 2005

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**Contact:** Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)