

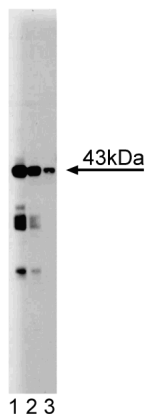
Technical Data Sheet

Purified Mouse Anti-Cathepsin L**Product Information**

Material Number:	611084
Size:	50 µg
Concentration:	250 µg/ml
Clone:	22/Cathepsin L
Immunogen:	Human Cathepsin L aa. 116-273
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	43 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Cathepsin L is a major lysosomal cysteine protease that plays an important role in intracellular protein catabolism and turnover. The 43kDa precursor form is processed to a mature form that localizes to the cell surface and is also secreted. The conversion from the proenzyme to the mature form of Cathepsin L is influenced by cell-cell contact and extracellular matrix components such as heparan sulfate and glycosaminoglycans. Cathepsin L processes several extracellular proteins (laminins, fibronectin, collagen, elastin) as well as serum proteins, and cytoplasmic and nuclear proteins. Its synthesis and secretion can be induced by tumor promoters, growth factors, and second messengers. It is believed to be an important player during metastasis because of the large quantities found in human tumors as well as in transformed cultured cells. Therefore, Cathepsin L is an active cysteine protease that plays a critical role in growth regulation, tumor invasion and metastasis, and bone resorption.



Western blot analysis of Cathepsin L on A431 cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-Cathepsin L antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

Application Notes**Application**

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Investigators are advised that we routinely test Purified Mouse Anti-Cathepsin L (Cat. No. 611084) using HepG2 (ATCC HB-8065; human hepatocellular carcinoma) cell lysate. For additional Western Blot resources please refer to <http://www.bdbiosciences.com/resources/cellbiology/index.jsp>

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
611555	HepG2 Cell Lysate	500 µg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Ishidoh K, Kominami E. Procathepsin L degrades extracellular matrix proteins in the presence of glycosaminoglycans in vitro. *Biochem Biophys Res Commun.* 1995; 217(2):624-631. (Biology)

Jean D, Hermann J, Rodrigues-Lima F, Barel M, Balbo M, Frade R. Identification on melanoma cells of p39, a cysteine proteinase that cleaves C3, the third component of complement: amino-acid-sequence identities with procathepsin L. *Biochem J.* 1995; 312(Pt 3):961-969. (Biology)

Joseph LJ, Chang LC, Stamenkovich D, Sukhatme VP. Complete nucleotide and deduced amino acid sequences of human and murine preprocathepsin L. An abundant transcript induced by transformation of fibroblasts. *J Clin Invest.* 1988; 81(5):1621-1629. (Biology)

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