



## Cathepsin O

## Data Sheet

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<b>Catalog Number:</b>	GT15197	<b>Host:</b>	Goat
<b>Product Type:</b>	Affinity Purified Antibody	<b>Species Reactivity:</b>	Human
<b>Immunogen Sequence:</b>	NS0-derived, recombinant human Cathepsin O (rhCathepsin O).	<b>Format:</b>	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose
<b>Applications:</b>	Immunohistochemistry -25 µg/mL Immunoprecipitation-25 µg/mL Western Blot-1 - 2 µg/mL Direct ELISA-.05-1.0 µg/mL		
<b>Storage:</b>	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. <i>Avoid repeated freeze-thaw cycles.</i>		

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### Application Notes

#### Specificity

This antibody was selected for its ability to recognize human Cathepsin O in Immunohistochemistry, Immunoprecipitation, Western Blots and direct ELISAs.

#### Immunoprecipitation:

This antibody has been tested at 25 µg/mL to immunoprecipitate rhCathepsin O from conditioned media of cell culture.

#### Western Blot

This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Cathepsin O. The detection limit for rhCathepsin O is approximately 20 ng/lane under both non-reducing and reducing conditions. In this format, this antibody shows less than 2% cross-reactivity with rhCathepsin A, B, C, D, L and Z.

#### Immunohistochemistry

This antibody has been tested at 25 µg/mL to immunoprecipitate rhCathepsin O from conditioned media of cell culture.

#### Direct ELISA

This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human Cathepsin O. The detection limit for rhCathepsin O is approximately 0.5 ng/well.

#### Description/Data:

Cathepsin O is a lysosomal papain-like cysteine proteinase of the CA clan, first described from human breast carcinoma tissue. Cathepsin O was found in all tissues analyzed, with greatest abundance in ovary, kidney, liver and placenta. Senescent fibroblasts are also reported to have elevated cathepsin O expression. Little is known about the localization of cathepsin O, but if it behaves similarly to the other CA cathepsins, the enzyme is divided between lysosomal and secreted forms.

### FOR RESEARCH USE ONLY

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Neuromics Antibodies • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail: [pshuster@neuromics.com](mailto:pshuster@neuromics.com)