

Datasheet for ABIN6939218
anti-Cathepsin D antibody (AA 104-250)[Go to Product page](#)

5 Images

Overview

Quantity:	100 µg
Target:	Cathepsin D (CTSD)
Binding Specificity:	AA 104-250
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cathepsin D antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human Cathepsin D protein (around aa 104-250) (exact sequence is proprietary)
Clone:	CTSD-3276
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Cathepsin D (CTSD)
Alternative Name:	CTSD (CTSD Products)
Background:	Cathepsin D is a ubiquitously expressed lysosomal aspartyl protease involved in the normal

Target Details

degradation of proteins. It is synthesized as an inactive 43 kDa preprocathepsin D that is cleaved and glycosylated to form a 46 kDa procathepsin D and then further cleaved to produce 28 kDa and 15 kDa subunits (heavy and light chains, respectively). Cathepsin D exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease.

Molecular Weight: 46kDa (Procathepsin D), 28kDa (Cathepsin D)

Gene ID: 1509

UniProt: [P07339](#)

Pathways: [Peptide Hormone Metabolism](#)

Application Details

Application Notes: Positive Control: MCF-7, K-562, A431 or SK-BR3 cells. Kidney, liver, lung or breast.
Known Application: Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

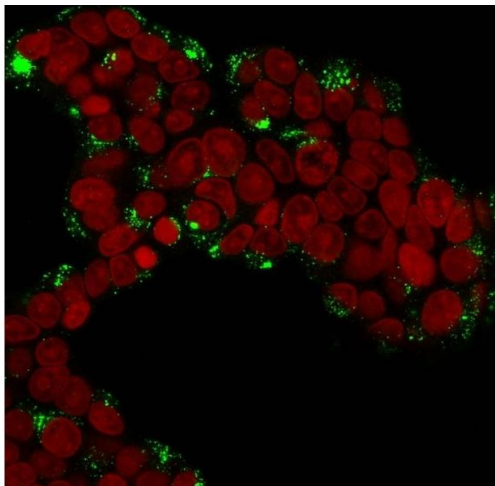
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

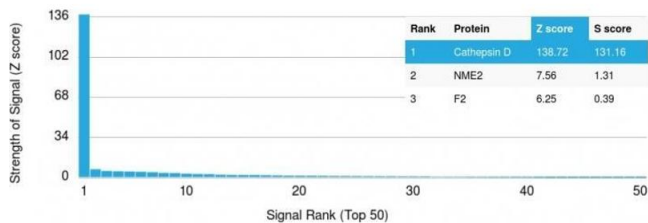
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



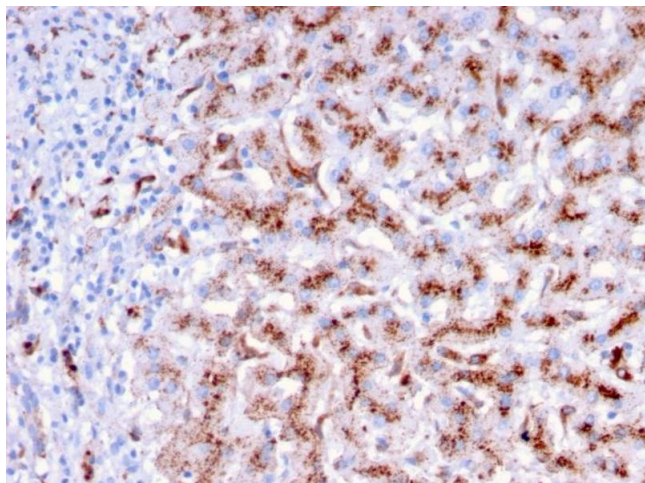
Immunofluorescence

Image 1. Immunofluorescence Analysis of MCF-7 cells labeling Cathepsin D with Cathepsin D Mouse Monoclonal Antibody (CTSD/3276). The nuclear counterstain is RedDot (Red).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Cathepsin D Mouse Monoclonal Antibody (CTSD/3276) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Liver stained with Cathepsin D Mouse Monoclonal Antibody (CTSD/3276).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6939218.