Datasheet for ABIN6939215

anti-Cathepsin D antibody (AA 104-250)

6 Images

Go to Product page

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), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human Cathepsin D protein (around aa 104-250) (exact sequence is proprietary)
Clone:	CTSD-3082
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

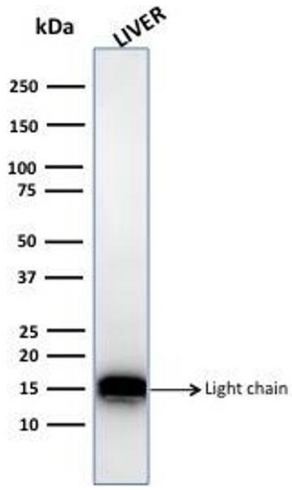
	degradation of proteins. It is synthesized as an inactive 43 kDa preprocathepsin D that is cleaved and glycosylated to form a 46 kDa procathepsin D and then further cleaved to produce 28 kDa and 15 kDa subunits (heavy and light chains, respectively). Cathepsin D exhibits pepsin-like activity and plays 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: K-562, A431 or SK-BR3 cells. Kidney, Liver, Lung or Breast. Known Application: 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

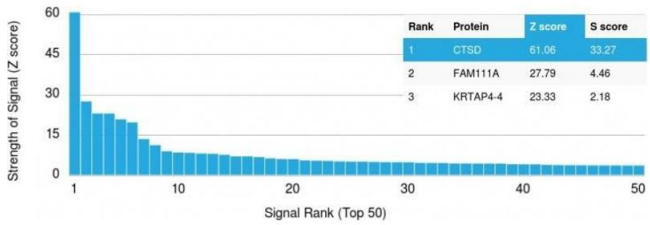
Handling

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



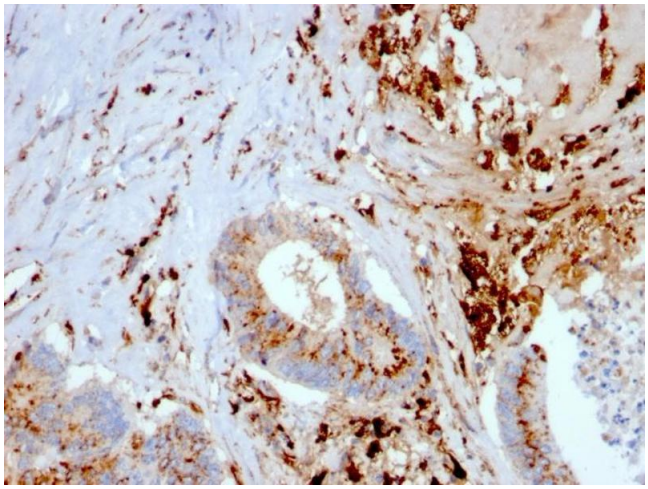
Western Blotting

Image 1. Western Blot Analysis of human liver tissue lysate using Cathepsin D Mouse Monoclonal Antibody (CTSD/3082).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Cathepsin D Mouse Monoclonal Antibody (CTSD/3082) 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 HuProtTM 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 HuProtTM 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 Carcinoma and Macrophages stained with Cathepsin D Mouse Monoclonal Antibody (CTSD/3082).

Please check the product details page for more images. Overall 6 images are available for ABIN6939215.