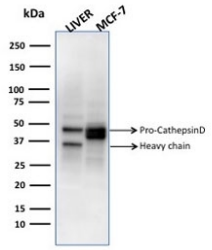
CTSD Antibody / Cathepsin D [clone CTSD/3275] (V8354)

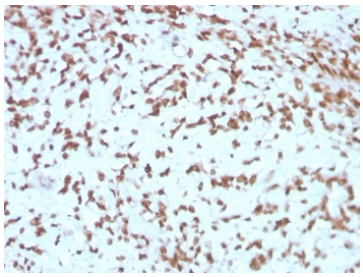
Catalog No.	Formulation	Size
V8354-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8354-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8354SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

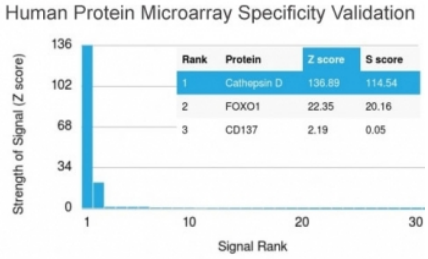
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CTSD/3275
Purity	Protein G affinity chromatography
UniProt	P07339
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 0.1-0.2ug/ml Western Blot : 1-2ug/ml
Limitations	This CTSD antibody is available for research use only.



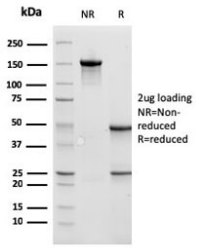
Western blot testing of human liver and MCF7 cell lysate with CTSD antibody.



IHC staining of FFPE human liver with CTSD antibody (clone CTSD/3275). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CTSD antibody (clone CTSD/3275). These results demonstrate the foremost specificity of the CTSD/3275 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CTSD antibody (clone CTSD/3275) as confirmation of integrity and purity.

Description

Cathepsin D is a ubiquitously expressed lysosomal aspartyl protease involved in the normal degradation of proteins. It is synthesized as an inactive 52kDa preprocathepsin D that is cleaved and glycosylated to form a 48kDa procathepsin D and then further cleaved to produce 34kDa and 14kDa 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.

Application Notes

Optimal dilution of the CTSD antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 104-250) was used as the immunogen of the CTSD antibody.

Storage

Store the CTSD antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).