Best Tools for immunology Research

Cathepsin D (PT0185R) PT® Rabbit mAb

Catalog No :	YM8115
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	Cathepsin D
Fields :	>>Sphingolipid signaling pathway;>>Autophagy - animal;>>Lysosome;>>Apoptosis;>>Estrogen signaling pathway;>>Tuberculosis;>>Diabetic cardiomyopathy
Gene Name :	CTSD
Protein Name :	Cathepsin D
Human Gene Id :	1509
Human Swiss Prot No :	P07339
Mouse Gene Id :	13033
Mouse Swiss Prot No :	P18242
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1:1000,WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	44kD

Observed Band : 30kD

Cell Pathway : Lysosome;

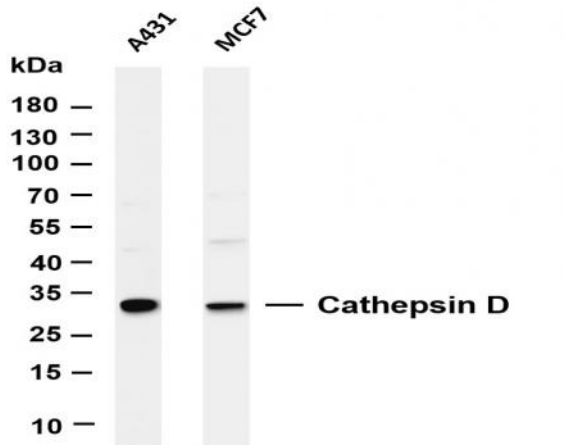
Background : This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like 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. [provided by RefSeq, Nov 2015],

Function : catalytic activity:Specificity similar to, but narrower than, that of pepsin A. Does not cleave the 4-Gln-|-His-5 bond in B chain of insulin.,disease:Defects in CTSD are the cause of neuronal ceroid lipofuscinosis 10 (CLN10) [MIM:610127]; also known as neuronal ceroid lipofuscinosis due to cathepsin D deficiency. The neuronal ceroid lipofuscinosis are a group of progressive neurodegenerative diseases in children and in adults, characterized by visual and mental decline, motor disturbance, epilepsy and behavioral changes.,function:Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.,polymorphism:The Val-58 allele is significantly overrepresented in demented patients (11.8%) compared with non-demented controls (4.9%). Carriers of the Val-58 allele have a 3.1-fold increased risk for de

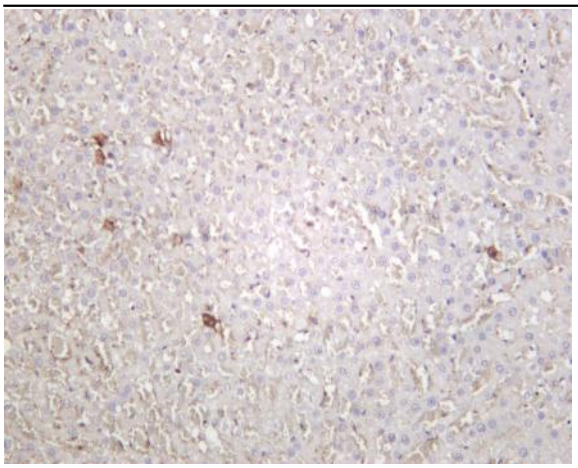
Subcellular Location : Secreted

Expression : Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530).

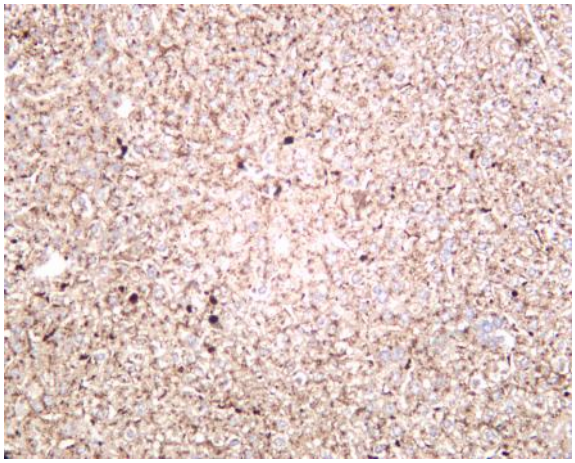
Products Images



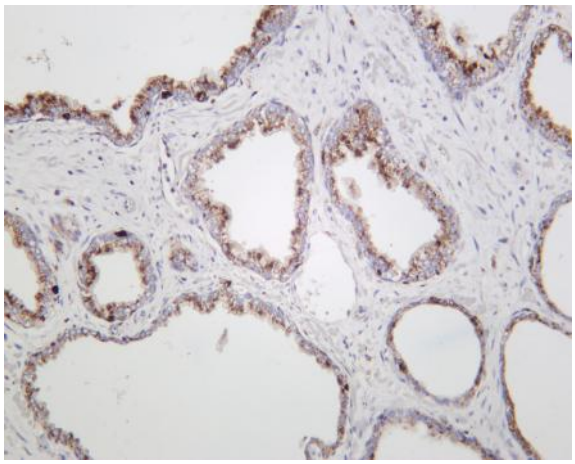
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cathepsin D (PT0185R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: MCF7 Predicted band size: 44kDa Observed band size: 30kDa



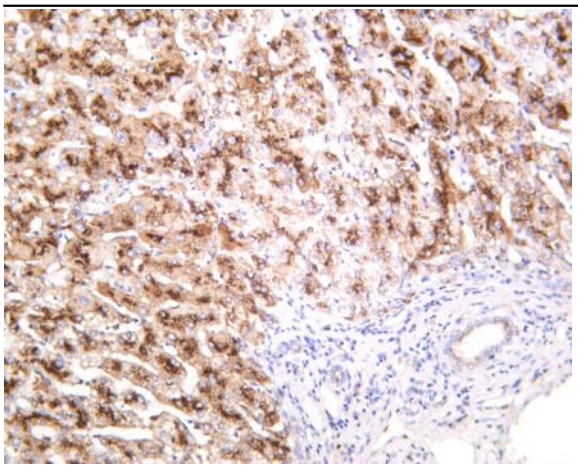
Rat liver was stained with anti-Cathepsin D (PT0185R) rabbit antibody



Mouse liver was stained with anti-Cathepsin D (PT0185R) rabbit antibody



Human prostate was stained with anti-Cathepsin D (PT0185R) rabbit antibody



Human liver was stained with anti-Cathepsin D (PT0185R) rabbit antibody