

Product Name: KD-Validated Cathepsin D LC Rabbit Polyclonal Antibody**Catalog #: KVA00478**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit pAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 44.6kDa

Antigen Information

Gene Name	CTSD
Alternative Names	CTSD; Cathepsin D; CLN10; CPSD; Ceroid-Lipofuscinosis, Neuronal 10; EC 3.4.23.5; Epididymis Secretory Sperm Binding Protein Li 130P; Cathepsin D (Lysosomal Aspartyl Protease); Lysosomal Aspartyl Peptidase; Lysosomal Aspartyl Protease; HEL-S-130P; EC 3.4.23
Gene ID	1509.0
SwissProt ID	P07339
Immunogen	A synthesized peptide derived from human Cathepsin D LC

Background

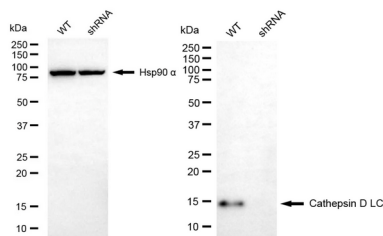
This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to

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]

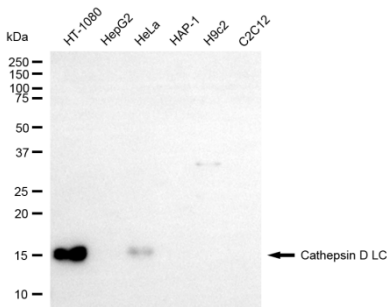
Research Area

Neuroscience, Signal Transduction, Cancer, Cell Biology, Neuroscience

Image Data



Western blotting analysis using cathepsin D LC antibody (KVA00478). Cathepsin D LC expression in wild-type (WT) and cathepsin D LC (CTSD) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cathepsin D LC antibody (KVA00478, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using cathepsin D LC antibody (KVA00478). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cathepsin D LC antibody (KVA00478, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.