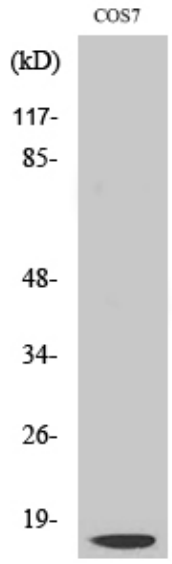
Cleaved-Cathepsin D LC (G65) Polyclonal Antibody

Catalog No	YP-Ab-02281
Isotype	IgG
Reactivity	Human;Monkey
Applications	WB;ELISA
Gene Name	CTSD
Immunogen	The antiserum was produced against synthesized peptide derived from human CATD. AA range:46-95
Specificity	Cleaved-Cathepsin D LC (G65) Polyclonal Antibody detects endogenous levels of fragment of activated Cathepsin D LC protein resulting from cleavage adjacent to G65.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Cathepsin D;CTSD;CPSD
Observed Band	17kD
Calculated Molecular Weight	17kD
Cell Pathway	Lysosome. Melanosome. Secreted, extracellular space. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In aortic samples, detected as an extracellular protein loosely bound to the matrix (PubMed:20551380). .
Tissue Specificity	Expressed in the aorta extracellular space (at protein level) (PubMed:20551380) . Expressed in liver (at protein level) (PubMed:1426530).
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
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Cleaved-Cathepsin D LC (G65) Polyclonal Antibody

Western blot analysis of lysates from COS7 cells, treated with etoposide 25uM 1h, using CATD (light chain,Cleaved-Gly65) Antibody. The lane on the right is blocked with the synthesized peptide.