

Product Data Sheet

Catalogue No. AB0043

Cathepsin D Polyclonal Antibody

Source: Goat

General description: Goat polyclonal antibody to Cathepsin D. Cathepsin D is a lysosomal aspartic protease of the pepsin family. Acid protease active in intracellular protein breakdown. It is composed of a dimer of disulphide-linked heavy and light chains, both produced from a single protein precursor. It is involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

Alternative names: ceroid-lipofuscinosis, CLN10; CPSD, CTSD, lysosomal aspartyl protease, lysosomal aspartyl peptidase, neuronal 10 antibody.

Form: Polyclonal antibody supplied as a 500 μ l (3 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

Immunogen: Purified recombinant peptide derived from within residues 275 aa to the C-terminus of human Cathepsin D produced in *E. coli*.

Specificity: This antibody gives a positive signal in the following human (Jurkat, HT1080, HUH, MDA-MB-231, ARPE19, SH-SY5Y), canine (MDCK) and monkey (COS-7) whole cell lysates.

Reactivity: Reacts against human, rat, mouse, canine and monkey proteins.

Sample	Western blot	Immuno- fluorescence	Histochemistry (paraffin)	Histochemistry (frozen)	IEM
human	+++	+++	+++	+++	+++
rat	+++	+++	+++	+++	+++
mouse	+++	+++	+++	+++	+++
canine	+++	+++	+++	+++	+++
monkey	+++	+++	+++	+++	+++

+++ excellent, ++ good, + poor, ND not determined

Usage: Western blot	1:250-1:1,000
Immunofluorescence	1:50-1:200
Immunohistochemistry (paraffin)	1:50-1:200
Immunohistochemistry (frozen)	1:50-1:200
IEM	1.50-1.200

Storage: Store at -20 C for long term storage. Store at 2-8 C for up to one month.

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Special instructions: Avoid freeze/thaw cycles.

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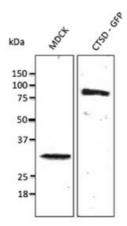


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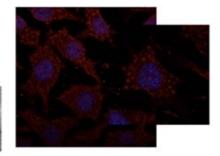
References:

1. Pelkonen L, Sato K, Reinisalo M, et al. Mol Pharm. 2017 Mar 6. PMID:28112518



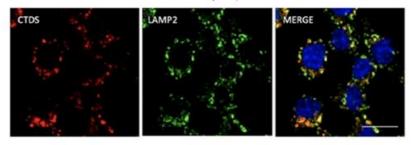
Immunoperoxidase of polyclonal antibody to CTSD (1/200) on paraformaldehyde-fixed paraffin-embedded mouse lung;

Anti-CTSD Ab at 1/500 dilution; endogenous CTSD (100 μg per lane) and transfected 293FT cell lysate (at 30 μg per lane); rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;



Immunogold labeling using melanocytes and anti-CTSD Ab;

Immunofluorescence – anti-CTSD Ab at 1/100 dilution in NHI/3T3 cells; cells were fixed with methanol and permeabilized with 0.1% saponin;



Immunofluorescence – anti-CTSD Ab at 1/100 dilution in RAW264.7 cells; cells were fixed with PFA and permeabilized with 0.05% saponin;

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