Catalogue No. AB0043-500
Qty: 1.5 mg (3 mg/ml)

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 µl (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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Western blot</th>
<th>Immunofluorescence</th>
<th>Histochemistry (paraffin)</th>
<th>Histochemistry (frozen)</th>
<th>IEM</th>
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</tbody>
</table>

+++ 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.

Special instructions: Avoid freeze/thaw cycles.

References:
SICGEN’s Proprietary Immunogen Policy

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.

For research use only, not for diagnostic use.

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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;

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

Immunogold labelling using melanocytes and anti-CTSD Ab;

Immunofluorescence – anti-CTSD Ab at 1/500 dilution in NIH/3T3 cells; cells were fixed with methanol and permeabilized with 0.1% saponin;