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# Cathepsin D HC Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51129

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | P07339 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 44552 |

## Additional Information

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|---|---|
| **Gene ID** | 1509 |
| **Other Names** | Cathepsin D, Cathepsin D light chain, Cathepsin D heavy chain, CTSD, CPSD |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cathepsin D HC. The exact sequence is proprietary. |
| **Dilution** | WB~~ 1:1000 |
| **Format** | 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50% |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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|---|---|
| **Name** | CTSD |
| **Synonyms** | CPSD |
| **Function** | Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation (PubMed:27333034). Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease. |
| **Cellular Location** | Lysosome. Melanosome. Secreted, extracellular space. Note=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 Location** | Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530). |

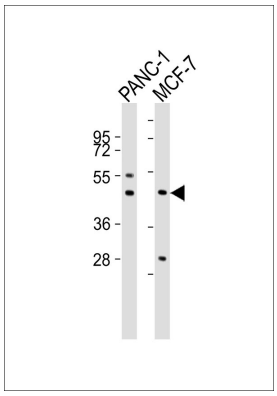
## Background

Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

## References

Faust P.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 82:4910-4914(1985).
Westley B.R.,et al.Nucleic Acids Res. 15:3773-3786(1987).
Redecker B.,et al.DNA Cell Biol. 10:423-431(1991).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

## Images




All lanes : Anti-Cathepsin D HC Antibody at 1:1000 dilution Lane 1: PANC-1 whole cell lysates Lane 2: MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.