
Cathepsin D Rabbit pAb

Catalog Number: bs-1615R

Target Protein: Cathepsin D

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Rat (predicted: Human, Mouse, Rabbit, Pig, Cow, Dog)

Predicted MW: 11/38/45 kDa

Entrez Gene: 1509

Swiss Prot: P07339

Source: KLH conjugated synthetic peptide derived from human Cathepsin D light chain:
101-200/412.

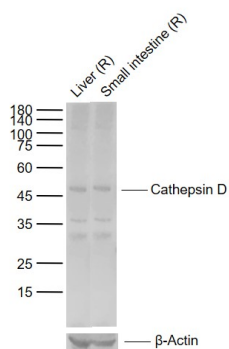
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Cathepsin D is a normal lysosomal protease that is expressed in all cells. It is an aspartyl protease with a pH optimum in the range of 3-5, and contains two N-linked oligosaccharides. Cathepsin D is synthesized as an inactive 52 kDa pro enzyme. Activation involves the proteolytic removal of the 43 amino acid profragment and an internal cleavage to generate the two-chain form made up of 34 and 14 kDa subunits. Cathepsin D contains the mannose-6-phosphate lysosomal localization signal that targets the enzyme to the lysosomal compartment where it functions in the normal degradation of proteins. In certain tumor cells, Cathepsin D is abnormally processed and is secreted in its 52 kDa precursor form. Numerous clinical studies as well as in vitro evidence suggest that cathepsin D plays an important role in malignant transformation and may be a useful prognostic indicator for breast cancer and possibly Alzheimer's disease.

VALIDATION IMAGES



Sample: Lane 1: Rat Liver tissue lysates Lane 2: Rat Small intestine tissue lysates Primary: Anti-Cathepsin D (bs-1615R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 11/38/45 kDa Observed band size: 46 kDa

PRODUCT SPECIFIC PUBLICATIONS

[IF=3.51] Hossain, Shahdat, Hiroyuki Arai, and Osamu Shido. "Neuroprotective Effect of Madecassoside Evaluated Using Amyloid β 1-42-Mediated in Vitro and in Vivo Alzheimer's Disease Models." International Journal of Indigenous Medicinal Plants (2014). ELISA ; ="Rat" . notpostedyet

[IF=2.74] Bailey Balouch. et al. Human INCL fibroblasts display abnormal mitochondrial and lysosomal networks and heightened susceptibility to ROS-induced cell death. Plos One. 2021 Feb;16(2):e0239689 ICC ; Human . 33561134

[IF=1.71] Liao, Peng, et al. "Organellar proteome analyses of ricin toxin-treated HeLa cells." Toxicology and industrial health (2014): 0748233714549066. WB ; ="Human" . 25227225