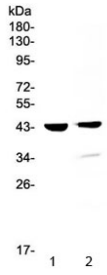
CTSD Antibody / Cathepsin D (RQ4405)

Catalog No.	Formulation	Size
RQ4405	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P18242
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml (recombinant mouse protein) (BSA-free format available)
Limitations	This CTSD antibody is available for research use only.



CTSD Antibody WB. Western blot testing of 1) mouse testis and 2) rat testis lysate with Cathepsin D / CTSD antibody at 0.5ug/ml. Expected molecular weight: 43-46 kDa, 28 kDa (heavy chain), 15 kDa (light chain).

Description

Cathepsin D is a protein that in humans is encoded by the CTSD gene. This proteinase is a member of the peptidase C1 family, having a specificity similar to but narrower than that of pepsin A. It is mapped to 11p15.5. The cDNA encodes a 412-amino acid protein with 20 and 44 amino acids in a pre- and prosegment, respectively. Cathepsin D is one of the lysosomal proteinases. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease and it has been considered as a breast cancer tumor marker.

This antibody can be compared with our Cathepsin D Antibody / CTSD Antibody (clone CTSD/3276) as a central reference for consistent CTSD detection across multiple assay formats.

Application Notes

Optimal dilution of the CTSD antibody should be determined by the researcher.

Immunogen

A mouse partial recombinant protein corresponding to amino acids K161-Q358 was used as the immunogen for the Cathepsin D / CTSD antibody.

Storage

After reconstitution, the CTSD antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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