

For Research Use Only

CTSA Recombinant antibody

Catalog Number: 80272-3-RR



Basic Information

Catalog Number:

80272-3-RR

Concentration:

1000 μ g/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7073

GenBank Accession Number:

BC000597

GeneID (NCBI):

5476

UNIPROT ID:

P10619

Full Name:

cathepsin A

Calculated MW:

54 kDa

Observed MW:

54-60, 32, 20 kDa

Purification Method:

Protein A purification

CloneNo.:

251086D9

Recommended Dilutions:

WB: 1:1000-1:6000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : A549 cells, DU 145 cells, PC-3 cells, SK-BR-3 cells

Background Information

CTSA is also named as PPGB(protective protein for beta-galactosidase), PPCA(protective protein cathepsin A), cathepsin A, carboxypeptidase C, carboxypeptidase L and belongs to the peptidase S10 family. It is a ubiquitously expressed multifunctional enzyme, with deamidase, esterase, and carboxypeptidase activities and a preference for substrates with hydrophobic amino acid residues at the P1-prime position. It can be cleaved into the following 2 chains and defects in CTSA are the cause of galactosialidosis (GSL). This protein has 2 glycosylation sites. CTSA is synthesized as a 54-kDa precursor protein and composed of 32- and 20-kDa subunits linked together by disulfide bonds(PMID: 16461364,19574551).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

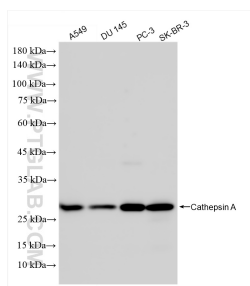
T: 4006900926

E: Proteintech-CN@ptglab.com

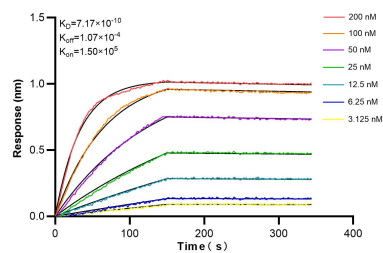
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80272-3-RR (CTSA antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 80272-3-RR against Human CTSA were performed. The affinity constant is 0.717 nM.