

For Research Use Only

CTSA Recombinant antibody, PBS Only

Catalog Number: 80272-3-PBS



Basic Information

Catalog Number: 80272-3-PBS	GenBank Accession Number: BC000597	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5476	CloneNo.: 251086D9
Source: Rabbit	UNIPROT ID: P10619	
Isotype: IgG	Full Name: cathepsin A	
Immunogen Catalog Number: AG7073	Calculated MW: 54 kDa	
	Observed MW: 54-60, 32, 20 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

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

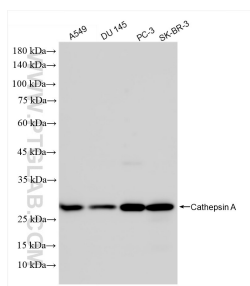
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

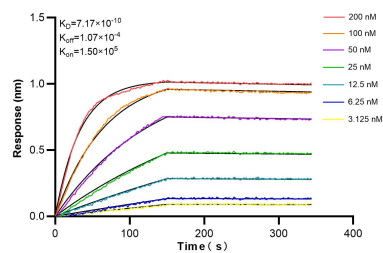
For technical support and original validation data for this product please contact:
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Selected Validation Data



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. This data was developed using the same antibody clone with 80272-3-PBS in a different storage buffer formulation.



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