

For Research Use Only

Alpha B Crystallin Recombinant monoclonal antibody

Catalog Number: 87851-1-RR



Basic Information

Catalog Number: 87851-1-RR	GenBank Accession Number: BC007008	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1410	CloneNo.: 253394A2
Source: Rabbit	UNIPROT ID: P02511	Recommended Dilutions: WB: 1:2000-1:30000
Isotype: IgG	Full Name: crystallin, alpha B	
Immunogen Catalog Number: AG8543	Calculated MW: 175 aa, 20 kDa	
	Observed MW: 20-22 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : U2OS cells, mouse heart tissue, rat heart tissue
Species Specificity: human, mouse, rat	

Background Information

Alpha B-crystallin, encoded by CRYAB gene, is multifunctional, serving as both a major structural protein in the lens and a small heat-shock protein in other tissues in mammals. Alpha B-crystallin may contribute to the transparency and refractive index of the lens. Single nucleotide polymorphisms (SNPs) in the promoter region of CRYAB gene have been associated with in multiple sclerosis. Mutations in the CRYAB gene cause distinct clinical phenotypes including isolated posterior polar cataract, myofibrillar myopathy, cardiomyopathy, or a multisystemic disorder combining all these features. Impairment of alpha-B crystallin dimerization may be relevant to the pathogenesis of these disorders.

Storage

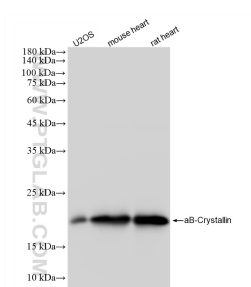
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

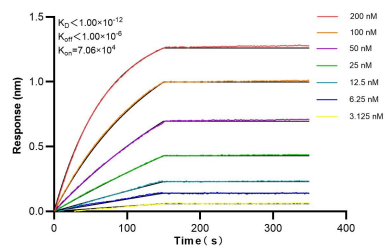
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87851-1-RR (Alpha B Crystallin antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87851-1-RR against Human Alpha B Crystallin were performed. The affinity constant is below 1 pM.