

For Research Use Only

Alpha B Crystallin Recombinant monoclonal antibody

Catalog Number: 87851-1-RR



Basic Information

Catalog Number:

87851-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8543

GenBank Accession Number:

BC007008

GeneID (NCBI):

1410

UNIPROT ID:

P02511

Full Name:

crystallin, alpha B

Calculated MW:

175 aa, 20 kDa

Observed MW:

20-22 kDa

Purification Method:

Protein A purification

CloneNo.:

253394A2

Recommended Dilutions:

WB: 1:2000-1:30000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : U2OS cells, mouse heart tissue, rat heart tissue

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

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

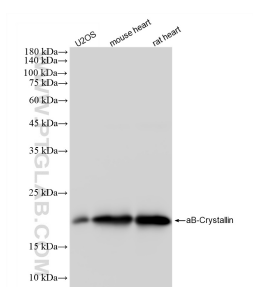
T: 4006900926

E: Proteintech-CN@ptglab.com

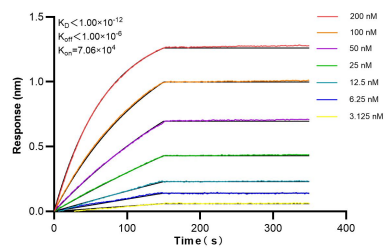
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Selected Validation Data



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.