

Recombinant

DGRmAb®

Alpha B Crystallin (DGR12912) Rabbit mAb

db15697

Package : 10µL 20µL 50µL 100µL

Product Name : Alpha B Crystallin (DGR12912) Rabbit mAb**Cat.No.:** db15697**Synonyms** : MFM2; CRYA2; CTPP2; HSPB5; CMD1II; CTRCT16; HEL-S-101**Application** : WB, IHC-P, ICC/IF**Reactivity** : Human,Rat**Host species** : Rabbit**Background**

Mammalian lens crystallins are divided into alpha, beta, and gamma families. Alpha crystallins are composed of two gene products: alpha-A and alpha-B, for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (HSP20) family. They act as molecular chaperones although they do not renature proteins and release them in the fashion of a true chaperone; instead they hold them in large soluble aggregates. Post-translational modifications decrease the ability to chaperone. These heterogeneous aggregates consist of 30-40 subunits; the alpha-A and alpha-B subunits have a 3:1 ratio, respectively. Two additional functions of alpha crystallins are an autokinase activity and participation in the intracellular architecture. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Alpha-A and alpha-B gene products are differentially expressed; alpha-A is preferentially restricted to the lens and alpha-B is expressed widely in many tissues and organs. Elevated expression of alpha-B crystallin occurs in many neurological diseases; a missense mutation cosegregated in a family with a desmin-related myopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Immunogen

A synthetic peptide of human Alpha B Crystallin

Gene ID

1410

Swiss Prot

P02511

Synonyms

MFM2; CRYA2; CTPP2; HSPB5; CMD1II; CTRCT16; HEL-S-101

Reactivity

Human,Rat

Application

WB, IHC-P, ICC/IF

Recommended dilution

WB: 1:1000

IHC-P: 1:100-1:200

ICC/IF: 1:100-1:200

Calculated MW	20 kDa
Observed MW	22 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR12912
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.