

Recombinant

DGRmAb®

alpha A Crystallin (DGR15225) Rabbit mAb (PBS Only)

db15108-PBS

Package : 100µg

Product Name : alpha A Crystallin (DGR15225) Rabbit mAb (PBS Only)**Cat.No.:** db15108-PBS**Synonyms** : CRYA1; HSPB4; CTRCT9**Application** : WB, ICC/IF**Reactivity** : Human,Mouse,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. Defects in this gene cause autosomal dominant congenital cataract (ADCC). [provided by RefSeq, Jan 2014]

Immunogen

A synthetic peptide of human alpha A Crystallin

Gene ID

1409

Swiss Prot

P02489

Synonyms

CRYA1; HSPB4; CTRCT9

Reactivity

Human,Mouse,Rat

Application

WB, ICC/IF

Recommended dilution

WB: 1:1000

ICC/IF: 1:200-1:500

Calculated MW

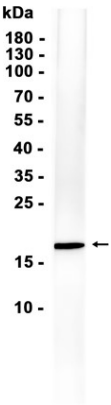
20 kDa

Observed MW

20 kDa

Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR15225
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Concentration	1 mg/ml
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.

Mouse eyeball



Western blot analysis of extracts from Mouse eyeball tissue using [db15108](#)