

Product datasheet

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ARG56910 anti-alpha A Crystallin antibody [c9F2]

Package: 50 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [c9F2] recognizes alpha A Crystallin

Tested Reactivity Hu, Rat
Tested Application WB

Host Mouse

Clonality Monoclonal

Clone c9F2

Isotype IgG1, kappa

Target Name alpha A Crystallin

Species Human

Immunogen Recombinant fragment around aa. 1-173 of Human alpha A Crystallin.

Conjugation Un-conjugated

Alternate Names CRYA1; HSPB4; CTRCT9

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 10% Glycerol

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

GenelD: 1409 Human

GeneID: 24273 Rat

Swiss-port # P02489 Human

Swiss-port # P24623 Rat

Gene Symbol CRYAA

Gene Full Name crystallin alpha A

Background

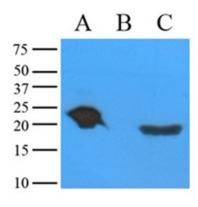
Mammalian lens crystallins are divided into alpha, beta, and gamma families. Alpha crystallins are composed of two gene products: alpha-A and alpha-B, for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (HSP20) family. They 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]

Function

Contributes to the transparency and refractive index of the lens. Has chaperone-like activity, preventing aggregation of various proteins under a wide range of stress conditions. [UniProt]

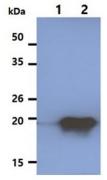
Calculated Mw 20 kDa

Images



ARG56910 anti-alpha A Crystallin antibody [c9F2] WB image

Western blot: Mouse eye extracts and recombinant proteins (Crystallin-alpha A and B) stained with ARG56910 anti-alpha A Crystallin antibody [c9F2] at 1:1000. This antibody is not shown cross-activity about Crystallin alpha B. A: Crystallin-alpha A recombinant protein B: Crystallin-alpha B recombinant protein C: Mouse eye lysates.



ARG56910 anti-alpha A Crystallin antibody [c9F2] WB image

Western blot: 5 µg of 1) 293T cell lysate, 2) Crystallin alpha A Transfected 293T cell lysate stained with ARG56910 anti-alpha A Crystallin antibody [c9F2] at 1:3000.