



Datasheet for ABIN7266527

## anti-CRYAA antibody



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### 3 Images

#### Overview

Quantity:	100 µL
Target:	CRYAA
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This CRYAA antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

#### Product Details

Purpose:	CRYAA Rabbit mAb
Immunogen:	A synthesized peptide derived from human CRYAA
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

#### Target Details

Target:	CRYAA
Alternative Name:	CRYAA ( <a href="#">CRYAA Products</a> )
Background:	Mammalian lens crystallins are divided into alpha, beta, and gamma families. Alpha crystallins

## Target Details

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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],CRYA1, CTRCT9, HSPB4,Cell Type Marker,Neuroscience,Signal Transduction,CRYAA

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Molecular Weight: 17kDa

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Gene ID: 1409

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UniProt: [P02489](#)

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Pathways: [M Phase](#)

## Application Details

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Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

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Preservative: Sodium azide

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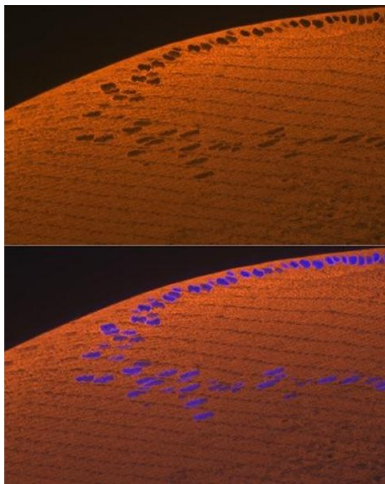
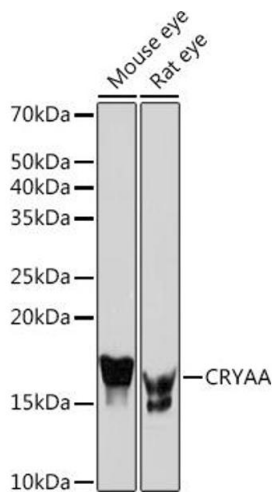
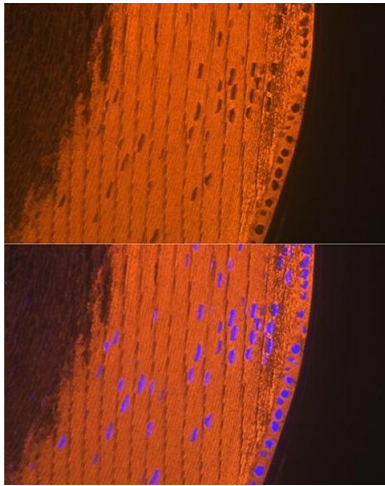
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



### Immunofluorescence

**Image 1.** Immunofluorescence analysis of mouse eye using CRYAA Rabbit mAb (ABIN7266527) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using CRYAA Rabbit mAb (ABIN7266527) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.

### Immunofluorescence

**Image 3.** Immunofluorescence analysis of rat eye using CRYAA Rabbit mAb (ABIN7266527) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.