

Datasheet for ABIN1881229 anti-CRYAA antibody (AA 77-106)

4

1	Image
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Publications



Overview

Quantity:	400 µL
Target:	CRYAA
Binding Specificity:	AA 77-106
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CRYAA antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Immunogen:	This CRYAA antibody is generated from rabbits immunized with a KLH conjugated synthetic
	peptide between 77-106 amino acids from the Central region of human CRYAA.
Clone:	RB28544
Isotype:	Ig Fraction
Predicted Reactivity:	B, Hs, M, Pig, Rb, Rat, Sh
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Target Details	
Target:	CRYAA
Alternative Name:	CRYAA (CRYAA Products)

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Target Details	
Background:	Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter
	class constitutes the major proteins of vertebrate eye lens and maintains the transparency and
	refractive index of the lens. Since lens central fiber cells lose their nuclei during development,
	these crystallins are made and then retained throughout life, making them extremely stable
	proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families, beta and
	gamma crystallins are also considered as a superfamily. Alpha and beta families are further
	divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous
	motifs, a connecting peptide, and N- and C-terminal extensions. 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 (sHSP also
	known as the 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. 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].
Molecular Weight:	19909

NCBI Accession:	NP_000385
UniProt:	P02489
Pathways:	M Phase

Application Details

Preservative:

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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Sodium azide

Handling	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months
Publications	
Product cited in:	Deng, Chen, Xie, Zhao, Gong, Liu, Zhang, Sun, Liu, Ma, Batra, Li: "The small heat shock protein
	alphaA-crystallin is expressed in pancreas and acts as a negative regulator of carcinogenesis."
	in: Biochimica et biophysica acta , Vol. 1802, Issue 7-8, pp. 621-31, (2010) (PubMed).
	Li, Yang, Ma, Zhang, Zhang, Wang, Zhu: "Autosomal dominant congenital nuclear cataracts
	caused by a CRYAA gene mutation." in: Current eye research, Vol. 35, Issue 6, pp. 492-8, (2010)
	(PubMed).
	Pang, Su, Feng, Tang, Gu, Zhang, Ma, Yan: "Effects of congenital cataract mutation R116H on
	alphaA-crystallin structure, function and stability." in: Biochimica et biophysica acta, Vol. 1804,
	Issue 4, pp. 948-56, (2010) (PubMed).
	Bhagyalaxmi, Padma, Reddy, Reddy: "Association of G>A transition in exon-1 of alpha crystallin
	gene in age-related cataracts." in: Oman journal of ophthalmology , Vol. 3, Issue 1, pp. 7-12, (2010) (PubMed).

Images



Western Blotting

Image 1. CRY Antibody (Center) (ABIN1881229 and ABIN2850423) western blot analysis in HepG2 cell line lysates ($35 \mu g$ /lane).This demonstrates the CRY antibody detected the CRY protein (arrow).

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