

## Datasheet for ABIN7599030 anti-CRYAA antibody (AA 1-173)



## Overview

Quantity:	100 μg
Target:	CRYAA
Binding Specificity:	AA 1-173
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CRYAA antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Purpose:	Anti-Alpha A Crystallin Antibody Picoband® (monoclonal, 10B9)
Immunogon:	
Immunogen:	E. coli-derived human Alpha A Crystallin recombinant protein (Position: M1-S173). Human
пппиподен.	E. coli-derived human Alpha A Crystallin recombinant protein (Position: M1-S173). Human  Alpha A Crystallin shares 94.8% amino acid (aa) sequence identity with both mouse and rat
пппиподен.	
Clone:	Alpha A Crystallin shares 94.8% amino acid (aa) sequence identity with both mouse and rat
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Clone: Isotype:	Alpha A Crystallin shares 94.8% amino acid (aa) sequence identity with both mouse and rat Alpha A Crystallin.  10B9  IgG1
Clone:  Isotype:  Cross-Reactivity (Details):	Alpha A Crystallin shares 94.8% amino acid (aa) sequence identity with both mouse and rat Alpha A Crystallin.  10B9  IgG1  No cross-reactivity with other proteins.
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Clone:  Isotype:  Cross-Reactivity (Details):	Alpha A Crystallin shares 94.8% amino acid (aa) sequence identity with both mouse and rat Alpha A Crystallin.  10B9  IgG1  No cross-reactivity with other proteins.  Anti-Alpha A Crystallin Antibody Picoband® (monoclonal, 10B9) (ABIN7599030). Tested in IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband

## **Product Details**

	antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.
Target Details	
Target:	CRYAA
Alternative Name:	CRYAA (CRYAA Products)
Background:	Synonyms: Ras-related protein Rab-5A, RAB5A, RAB5
	Tissue Specificity: Widely expressed in fetal and adult tissues.
	Background: Alpha-crystallin A chain is a protein that in humans is encoded by the CRYAA gene
	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. 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).
Molecular Weight:	20-23 kDa
Gene ID:	1409
UniProt:	P02489
Pathways:	M Phase
Application Details	
Application Notes:	Western blot, 0.25-0.5 μg/mL, Mouse, Rat
	Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human
	1. "Entrez Gene: CRYAA crystallin, alpha A". 2. Derham BK, Harding JJ (1999). "Alpha-crystallin
	as a molecular chaperone.". Progress in retinal and eye research 18 (4): 463-509. 3. Jaworski
	CJ, Piatigorsky J (1989). "A pseudo-exon in the functional human alpha A-crystallin gene.".

## **Application Details**

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.
	It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and
	thawing.