







## **CRYAA Monoclonal Antibody**

Catalog No	YP-mAb-05064
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CRYAA CRYA1 HSPB4
Protein Name	Alpha-crystallin A chain (Heat shock protein beta-4) (HspB4) [Cleaved into: Alpha-crystallin A chain, short form]
Immunogen	Synthesized peptide derived from human protein . at AA range: 1-80
Specificity	CRYAA Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	19kD
Cell Pathway	Cytoplasm . Nucleus . Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.
Tissue Specificity	Expressed in the eye lens (at protein level).
Function	disease:Crystallins do not turn over as the lens ages, providing ample opportunity for post-translational modifications or oxidations. These modifications may change crystallin solubility properties and favor senile cataract.,disease:Defects in CRYAA are the cause of zonular central nuclear cataract [MIM:123580, 604219]; one of a considerable number of phenotypically and genotypically distinct forms of autosomal dominant cataract. This congenital cataract is a common major abnormality of the eye that frequently cause blindness in infants.,function:May contribute to the transparency and refractive index of the lens.,mass spectrometry: PubMed:10930324,mass spectrometry: PubMed:8175657,mass spectrometry: PubMed:9655350,mass spectrometry:With 1 phosphate group PubMed:8175657,PTM:Deamidation of Asn-101 in lens occurs mostly during the first 30 years of age, followed by a small additional amou
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



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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 appended protein has been identified as a mornlighting protein architecture. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distin

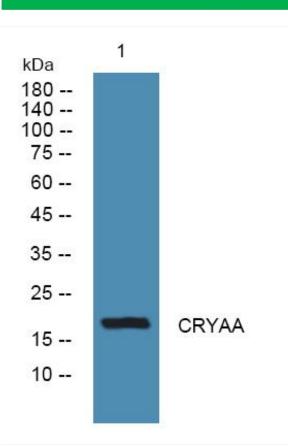
matters needing attention

Avoid repeated freezing and thawing!

**Usage suggestions** 

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## **Products Images**



Western Blot analysis of various cells using CRYAA Monoclonal Antibody