

Datasheet for ABIN121144
anti-CRYAA antibody



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Overview

Quantity:	0.1 mL
Target:	CRYAA
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CRYAA antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Recombinant human α -Crystallin A protein
Clone:	C9F2
Isotype:	IgG1
Specificity:	The antibody recognizes human , rat and mouse Crystallin-alpha A. Other species not tested.
Purification:	Protein-G affinity chromatography

Target Details

Target:	CRYAA
Alternative Name:	α -Crystallin A Chain (CRYAA Products)
Background:	Crystallins alpha are composed of two gene products, alpha A and alpha B, for acidic and basic, respectively. crystallins alpha can be induced by heat shock and are members of the small heat

Target Details

shock protein (sHSP also known as the HSP20). They act as molecular chaperones and hold them in large soluble aggregates. 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 expression of alpha-A is preferentially restricted to the lens cell. Synonyms: CRYA1, CRYAA, HSPB4, Heat shock protein beta-4

UniProt: [P02489](#)

Pathways: [M Phase](#)

Application Details

Application Notes: ELISA. Western blot (1:500 - 1:2,000), recommended starting dilution 1:1000.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

Buffer: PBS, pH 7.4, containing 10 % glycerol and 0.02 % sodium azide

Preservative: Sodium azide

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

Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf Life: one year from despatch.

Expiry Date: 12 months



Western Blotting

Image 1. Immunoblot analysis: Rat eye extracts were resolved by electrophoresis, transferred to PVDF membrane and probed with anti-crystallin alphaalpha(1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a DAP detection system. Arrow indicates crystalline alphaalpha(~20 kDa).