

Mouse anti-Human A crystallin A Monoclonal Antibody | anti-CRYAA antibody

A crystallin A antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11723	Mouse	Human	ELISA, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

A crystallin A; Monoclonal Antibody; A crystallin A antibody; Heat shock protein beta-4; HspB4; Alpha-crystallin A chain; Heat shock protein beta 4; Acry-1; Alpha crystallin A chain; CRYA 1; CRYA1; CRYAA; Crystallin Alpha 1; Crystallin alpha A; HSPB 4; Zonular Central Nuclear Cataract; ; anti-CRYAA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	c9F2
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (determined by BCA assay) (varies by lot)
Sequence Length	173
Applicable Applications for anti-CRYAA antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry)
Application Notes	Since applications varies, however, each investigation should be titrated by reagent to obtain optimal results.
Immunogen	Recombinant human Crystallin alpha A (1-173aa) purified from E. coli
Preparation and Storage	Can be stored at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



FCM (Flow Cytometry)

Flow cytometry analysis of Crystallin alpha A in Balb/3T3 cells. The cell was stained with AAA11723 at 2-5ug for 1x10⁶ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).



WB (Western Blot)

The cell lysates (5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Crystallin alpha A antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate Lane 2.: Crystallin alpha A Transfected 293T cell lysate



WB (Western Blot)

The recombinant proteins were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Crystallin alpha A antibody (1:1000).Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.This antibody is not shown cross-activity about Crystallin alpha B.Lane 1.: Recombinant human Crystallin alpha A protein Lane 2.: Recombinant human Crystallin alpha B protein

ADDITIONAL INFORMATION

Related Product Information for anti-CRYAA antibody	alpha-crystallins, a major protein of the ocular lens, are thought to play a role in maintaining lens transparency, which 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). They act as molecular chaperones and hold unfolded or misfolded proteins in large, water-soluble low molecular weight aggregates. These heterogeneous aggregates consist of 30-40 subunits of the alpha-A and alpha-B subunits have a 3:1 ratio, respectively. Two additional function of alpha-crystallins are an autokinase activity and the participation in the intracellular architecture.
Product Categories/Family for anti-CRYAA antibody	Heat Shock Proteins
References	Fujii N., et al., (2003) Mol. Vis. 9: 915-22; Laksanalamai P., et al., (2004) Extremophiles 8: 1-11

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503055
NCBI GeneID	1409
NCBI Accession #	NP_000385
NCBI GenBank Nucleotide #	NM_000394.3
UniProt Accession #	P02489; Q53X53
NCBI Official Full Name	alpha-crystallin A chain
NCBI Official Synonym Full Names	crystallin alpha A
NCBI Official Symbol	CRYAA
NCBI Official Synonym Symbols	CRYA1; HSPB4; CTRCT9
NCBI Protein Information	alpha-crystallin A chain
UniProt Protein Name	Alpha-crystallin A chain
UniProt Gene Name	CRYAA
UniProt Synonym Gene Names	CRYA1; HSPB4; HspB4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/a-crystallin-a-antibody-clone-c9f2-western-blot-flow-cytometry-elisa/11723>