

Rabbit Crystallin Polyclonal Antibody | anti-CRYAA antibody

Anti-Alpha A Crystallin Antibody

CATALOG # AAA46615	HOST Rabbit	REACTIVITY Human, Mouse, Rat No cross reactivity with other proteins.	APPLICATIONS Immunohistochemistry, Western Blot
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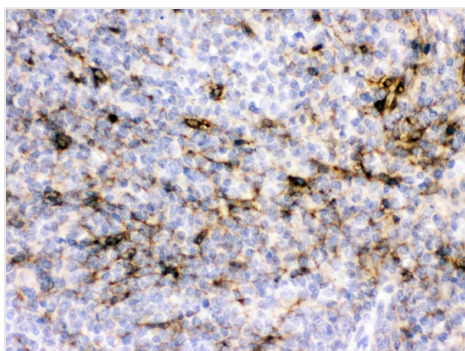
PRODUCT SYNONYMS

Crystallin; Polyclonal Antibody; Anti-Alpha A Crystallin Antibody; Acry 1; CRYA 1; CRYA1; CRYAA; Crystallin alpha 1; Crystallin alpha A; HSPB 4; HspB4; P02489 ; Alpha-crystallin A chain; crystallin alpha A; anti-CRYAA antibody

PRODUCT SPECIFICATIONS

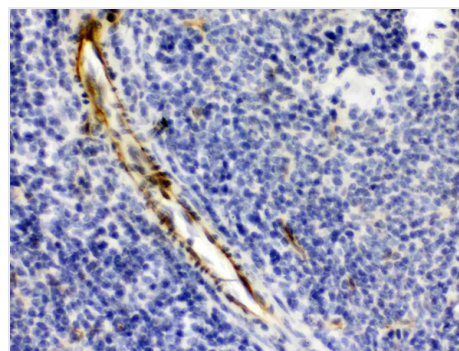
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	173
Applicable Applications for anti-CRYAA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	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 Alpha A Crystallin.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



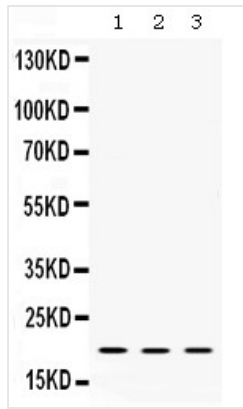
IHC (Immunohistochemistry)

Alpha A Crystallin was detected in paraffin-embedded sections of rat spleen tissues using rabbit anti- Alpha A Crystallin Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)

Alpha A Crystallin was detected in paraffin-embedded sections of mouse spleen tissues using rabbit anti- Alpha A Crystallin Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of Alpha A Crystallin expression in rat spleen extract (lane 1), mouse eye ball extract (lane 2) and SMMC7721 whole cell lysates (lane 3). Alpha A Crystallin at 20KD was detected using rabbit anti- Alpha A Crystallin Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-CRYAA antibody	Rabbit IgG polyclonal antibody for Alpha-crystallin A chain (CRYAA) detection. 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).
References	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.". Nature337 (6209): 752-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503055
NCBI GeneID	1409
NCBI Accession #	NP_000385.1
NCBI GenBank Nucleotide #	NM_000394.3
UniProt Accession #	P02489; Q53X53; AAB33370
Molecular Weight	19,909 Da
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
UniProt Entry Name	CRYAA_HUMAN

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/polyclonal/crystallin-antibody-immunohistochemistry-western-blot-elisa/46615>