

Rabbit CRYAA Polyclonal Antibody | anti-CRYAA antibody

CRYAA Polyclonal Antibody

CATALOG # AAA279650	HOST Rabbit	REACTIVITY Human, Mouse, Rat, Zebrafish	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot
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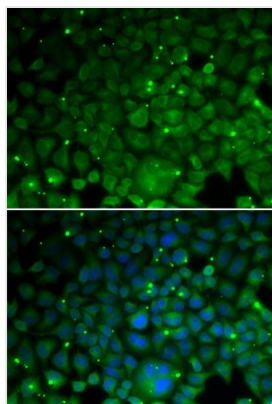
PRODUCT SYNONYMS

CRYAA; Polyclonal Antibody; CRYAA Polyclonal Antibody; CRYA1; HSPB4; CTRCT9; anti-CRYAA antibody

PRODUCT SPECIFICATIONS

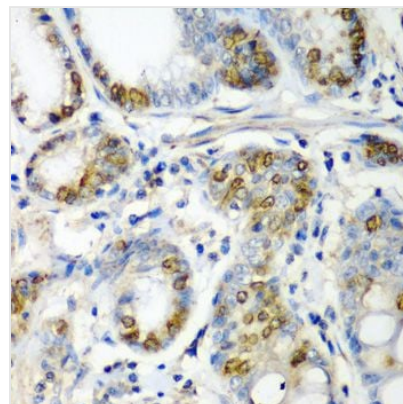
Host	Rabbit
Reactivity	Human, Mouse, Rat, Zebrafish
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	173
Applicable Applications for anti-CRYAA antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human CRYAA
Calculated Molecular Weight	20kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

IMAGES



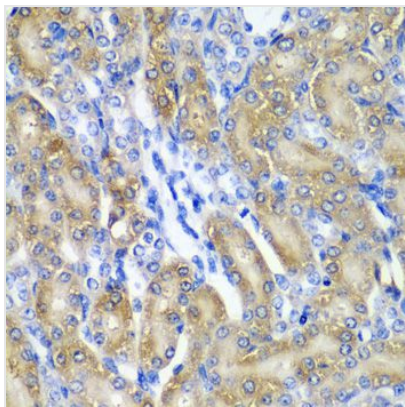
IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells using CRYAA antibody. Blue: DAPI for nuclear staining.



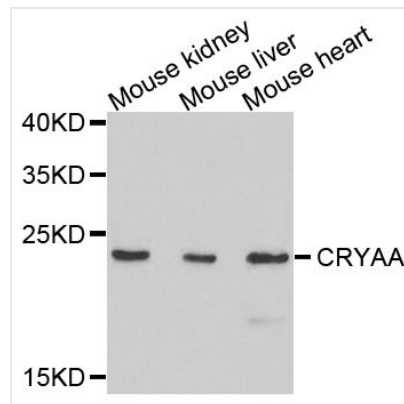
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon carcinoma using CRYAA antibody at dilution of 1:200 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat kidney using CRYAA antibody at dilution of 1:200 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using CRYAA antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 60s.

ADDITIONAL INFORMATION

Related Product Information for anti-CRYAA antibody

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. 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 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).

Product Categories/Family for anti-CRYAA antibody

Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	1706112
NCBI GeneID	1409
UniProt Accession #	P02489 ; Q53X53 ; AAB33370
Molecular Weight	173
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; crystallin, alpha-1; heat shock protein beta-4; human alphaA-crystallin (CRYA1)
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://www.aaabiotech.com/polyclonal/cryaa-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/279650>