

Rabbit anti-Human, mouse CRYBA1 Polyclonal Antibody | anti-CRYBA1 antibody

CRYBA1 Antibody (Center)

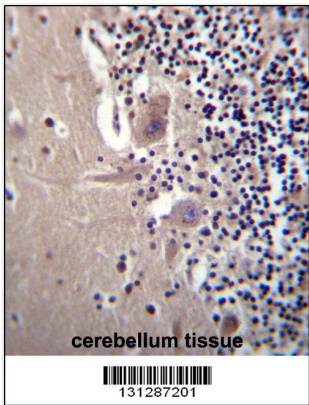
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284821	Rabbit	Human, mouse	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

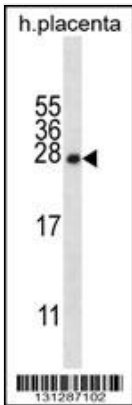
CRYBA1; Polyclonal Antibody; CRYBA1 Antibody (Center); Beta-crystallin A3; isoform A1; Delta4 form; Delta7 form; Delta8 form; CRYB1; anti-CRYBA1 antibody

PRODUCT SPECIFICATIONS

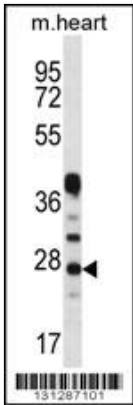
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CRYBA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-133 amino acids from the Central region of human CRYBA1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	104-133
Sequence Length	198
Applicable Applications for anti-CRYBA1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Crystallins are the dominant structural components of the vertebrate eye lens.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemisry)
CRYBA1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CRYBA1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
CRYBA1 Antibody (Center) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the CRYBA1 antibody detected the CRYBA1 protein (arrow).



WB (Western Blot)
CRYBA1 Antibody (Center) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the CRYBA1 antibody detected the CRYBA1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CRYBA1 antibody

Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous motifs, a connecting peptide, and N- and C-terminal extensions. Beta-crystallins, the most heterogeneous, differ by the presence of the C-terminal extension (present in the basic group, none in the acidic group). Beta-crystallins form aggregates of different sizes and are able to self-associate to form dimers or to form heterodimers with other beta-crystallins. This gene, a beta acidic group member, encodes two proteins (crystallin, beta A3 and crystallin, beta A1) from a single mRNA, the latter protein is 17 aa shorter than crystallin, beta A3 and is generated by use of an alternate translation initiation site. Deletion of exons 3 and 4 causes the autosomal dominant disease 'zonular cataract with sutural opacities'.

Product Categories/Family for anti-CRYBA1 antibody	Neuroscience
References	Xu, J., et al. Mol. Vis. 16, 438-444 (2010) : Gu, Z., et al. Mol. Vis. 16, 154-160 (2010) : Srivastava, K., et al. Biochemistry 48(30):7179-7189(2009) Gupta, R., et al. J. Biol. Chem. 284(27):18481-18492(2009) Takata, T., et al. Mol. Vis. 15, 241-249 (2009) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	12056461
NCBI GeneID	1411
NCBI Accession #	NP_005199.2
NCBI GenBank Nucleotide #	NM_005208.4
UniProt Accession #	P05813; Q13633; Q14CM9
Molecular Weight	25150
NCBI Official Full Name	beta-crystallin A3
NCBI Official Synonym Full Names	crystallin, beta A1
NCBI Official Symbol	CRYBA1
NCBI Official Synonym Symbols	CRYB1; CTRCT10
NCBI Protein Information	beta-crystallin A3
UniProt Protein Name	Beta-crystallin A3
UniProt Gene Name	CRYBA1
UniProt Synonym Gene Names	CRYB1
UniProt Entry Name	CRBA1_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/cryba1-antibody-immunohistochemistry-western-blot-elisa/284821>