Crystallin Beta B1 (CRYbB1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Crystallin Beta B1 (CRYbB1), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Crystallin Beta B1 (CRYbB1)
Product Gene Name	anti-CRYbB1 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Rat
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: CRYbB1 (MBS2027815) PE Conjugated Antibody: CRYbB1 (MBS2076314)
Matching Pairs	PE Conjugated Antibody: CRYbB1 (MBS2076314) Immunogen: CRYbB1 (MBS2029671)
Molecular Weight	28,023 Da
OMIM	U35340 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	CRYbB1 (Lys6~Val186)
Conjugation	PE
Cross Reactivity	Mouse, Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2027815
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CRYbB1 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-CRYbB1 antibody	MBS2076314 is an antibody targeting CRYbB1. Also known as PE-Linked Polyclonal Antibody to Crystallin Beta B1 (CRYbB1). Reactive in Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CRYbB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRYbB1. It may not necessarily be applicable to this product.

NCBI GI #	119580134
NCBI GeneID	1414
NCBI Accession #	EAW59730.1
UniProt Related Accession #	P53674
NCBI Official Full Name	crystallin, beta B1

NCBI Official Synonym Full Names	crystallin beta B1
NCBI Official Symbol	CRYBB1
NCBI Official Synonym Symbols	CATCN3; CTRCT17
UniProt Protein Name	Beta-crystallin B1
UniProt Synonym Protein Names	Beta-B1 crystallin
Protein Family	Beta-crystallin
UniProt Gene Name	CRYBB1
NCBI Protein Information	beta-crystallin B1
NCBI Summary for CRYbB1	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 basic group member, undergoes extensive cleavage at its N-terminal extension during lens maturation. It is also a member of a gene cluster with beta-A4, beta-B2, and beta-B3. [provided by RefSeq, Jul 2008]
UniProt Comments for CRYbB1	CRYBB1: a major structural protein of the eye lens. A member of the beta/gamma-crystallin family. Specific cleavages in the N-terminal arm occur during lens maturation and give rise to truncated forms, leading to impaired oligomerization and protein insolubilization. The protease responsible for this partial degradation could be calpain II. Chromosomal Location of Human Ortholog: 22q12.1 Molecular Function: protein binding Disease: Cataract 17, Multiple Types
Research Articles on CRYbB1	**1.** Despite the disruption of betaB1-crystallin assembly, the thermal stability of betaB1-crystallin was increased by the mutation accompanied by the reduction of thermal aggregation at high temperatures
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