Beta-Crystallin B2 (CRYBB2) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Beta-crystallin B2 (CRYBB2), ELISA Kit
Full Product Name	Monkey Beta-crystallin B2 (CRYBB2) ELISA Kit
Product Gene Name	CRYBB2 elisa kit
Species Reactivity	Monkey
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	23,380 Da
OMIM	gene 601547
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for CRYBB2 elisa kit	Neuroscience
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CRYBB2 elisa kit	MBS7226469 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Beta-crystallin B2 (CRYBB2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CRYBB2. The ELISA analytical biochemical technique of the MBS7226469 kit is based on CRYBB2 antibody-CRYBB2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CRYBB2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CRYBB2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CRYBB2 elisa kit 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 CRYBB2. It may not necessarily be applicable to this product.

NCBI GI #	4503063
NCBI GeneID	1415
NCBI Accession #	NP_000487.1
UniProt Secondary Accession #	Q9UCM8
UniProt Related Accession #	P43320
GenBank Nucleotide #	NM_000496.2
NCBI Official Full Name	beta-crystallin B2
NCBI Official Synonym Full Names	crystallin, beta B2
NCBI Official Symbol	CRYBB2

NCBI Official Synonym Symbols	CCA2; CRYB2; CRYB2A; CTRCT3; D22S665
UniProt Protein Name	Beta-crystallin B2
UniProt Synonym Protein Names	Beta-B2 crystallin; Beta-crystallin Bp
Protein Family	Beta-crystallin
UniProt Gene Name	CRYBB2
UniProt Synonym Gene Names	CRYB2; CRYB2A
UniProt Entry Name	CRBB2_HUMAN
NCBI Protein Information	beta-crystallin B2; beta-B2 crystallin; beta-crystallin Bp; eye lens structural protein
NCBI Summary for CRYBB2	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, is part of a gene cluster with beta-A4, beta-B1, and beta-B3. A chain-terminating mutation was found to cause type 2 cerulean cataracts. [provided by RefSeq, Jul 2008]
UniProt Comments for CRYBB2	CRYBB2: a major structural protein of the eye lens. A member of the beta/gamma-crystallin family. Defects are the cause of congenital cerulean type 2 cataract, sutural cataract with punctate and cerulean opacities, and Coppock-like cataract. Chromosomal Location of Human Ortholog: 22q11.23 Molecular Function: identical protein binding; protein homodimerization activity; structural molecule activity; structural constituent of eye lens Biological Process: camera-type eye development; visual perception; response to stimulus Disease: Cataract 3, Multiple Types
Research Articles on CRYBB2	**1.** The distinct behaviors of the mutants suggested that the residue at position 188 might play a regulatory role in betaB2-crystallin aggregation/fibrillization but not reside in the core of the aggregates/fibrils.
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