



Mouse anti-Human CRYBB3 monoclonal antibody, clone 5I7 (CABT-B10035)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	CRYBB3 (NP_004067, 112 a.a. ~ 212 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	5I7
Conjugate	Unconjugated
Applications	WB, ELISA
Sequence Similarities	PHHKLHLFENPAFSGRKMEIVDDDVPSLWAHGFQDRVASVRAINGTWVGYEFPGYRGRQY VFERGEYRHWNEWNASQPQLQSVRRIRDQKWHKGRFRFPSS*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	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
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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-B2. Mutations in this gene result in cataract congenital nuclear autosomal recessive type 2. [provided by RefSeq, Feb 2013]

Keywords	CRYBB3; crystallin, beta B3; CRYB3; CATCN2; CTRCT22; beta-crystallin B3; eye lens structural protein;
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GENE INFORMATION

Entrez Gene ID	1417
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UniProt ID	P26998
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Function	protein binding; structural constituent of eye lens
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