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Product datasheet for TA332773

CRYBB2 Mouse Monoclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommend Dilution:	WB 1:500 - 1:2000, IHC 1:50- 1:200
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant protein of human CRYBB2
Formulation:	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	1 mg/ml
Purification:	Affinity purification
Predicted Protein Size:	205
Gene Name:	crystallin beta B2
Database Link:	NP_000487 Entrez Gene 12961 Mouse Entrez Gene 25422 Rat Entrez Gene 1415 Human
Background:	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.

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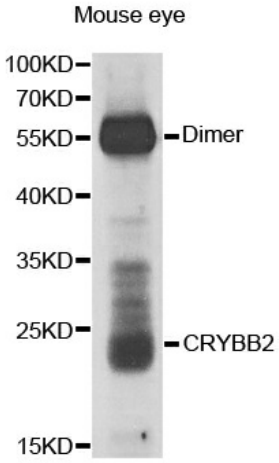
Synonyms: CCA2; CRYB2; CRYB2A; CTRCT3; D22S665

Product images:



Western blot analysis of extracts of mouse eye, using CRYBB2 antibody.