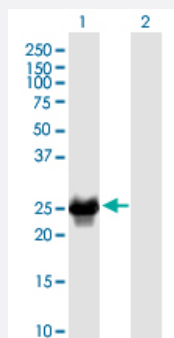


# CRYBB2 monoclonal antibody (M02), clone 1F1

Catalog # H00001415-M02

Size 100 ug

## Applications

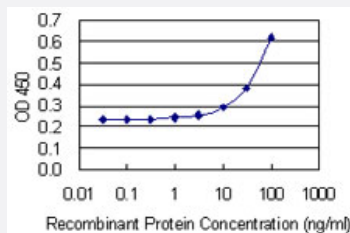


### Western Blot (Transfected lysate)

Western Blot analysis of CRYBB2 expression in transfected 293T cell line by CRYBB2 monoclonal antibody (M02), clone 1F1.

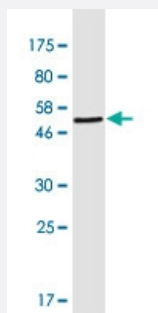
Lane 1: CRYBB2 transfected lysate (Predicted MW: 23.4 KDa).

Lane 2: Non-transfected lysate.



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CRYBB2 is 3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (49.8 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a full-length recombinant CRYBB2.

<b>Immunogen</b>	CRYBB2 (NP_000487.1, 1 a.a. ~ 205 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence</b>	MASDHQTQAGKPQSLNPKIIIFEQENFQGHSEHNGPCPNLKETGVEKAGSVLVQAGPWVGYEQ ANCKGEQFVFEKGEYPRWDSWTSSRRDLSLRLPIKVDSQEHKILYENPNFTGKKMEIIDDVDP SFHAHGYQEKVSSVRVQSGTWVGYYQYPGYRGLQYLLEKGDYKDSSDFGAPHPQVQSVRRIRDM QWHQRGAFHPSN
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Interspecies Antigen Sequence</b>	Mouse (97); Rat (97)
<b>Isotype</b>	IgG2a Kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (49.8 KDa) .
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of CRYBB2 expression in transfected 293T cell line by CRYBB2 monoclonal antibody (M02), clone 1F1.

Lane 1: CRYBB2 transfected lysate (Predicted MW: 23.4 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CRYBB2 is 3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — CRYBB2

**Entrez GeneID** [1415](#)

**GeneBank Accession#** [NM\\_000496.2](#)

**Protein Accession#** [NP\\_000487.1](#)

**Gene Name** CRYBB2

**Gene Alias** CCA2, CRYB2, CRYB2A, D22S665

**Gene Description** crystallin, beta B2

**Omim ID** [123620](#) [601547](#) [604307](#) [607133](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary**

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]

**Other Designations** OTTHUMP00000028560|eye lens structural protein