

## Recombinant Mouse Crybb1 protein, His & GST-tagged

Cat. No. Crybb1-1445M    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant Mouse Crybb1 aa. (Lys6~Val186 (Accession # Q9WVJ5) fused with N-terminal His & GST tag was produced in E. coli cells.                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | Lys6~Val186                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a member of the crystallin family of proteins that contribute to the transparency and refractive properties of the ocular lens. The encoded protein associates with other beta crystallin proteins to form dimers, tetramers and other higher-order complexes. This gene is located adjacent to a related crystallin gene on chromosome 5. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 49.9kDa.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Characteristic</b>   | The isoelectric point is 5.9.                                                                                                                                                                                                                                                                                                                                                                                              |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Stability</b>      | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

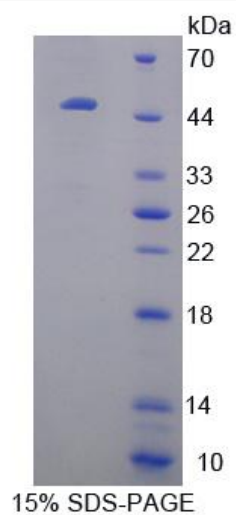
|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Crybb1 crystallin, beta B1 [ Mus musculus (house mouse) ]</a> |
| <b>Official Symbol</b> | <a href="#">Crybb1</a>                                                    |
| <b>Synonyms</b>        | Crybb1; crystallin, beta B1; BB1CRY; 3110006K12Rik; beta-crystallin B1    |
| <b>Gene ID</b>         | <a href="#">12960</a>                                                     |
| <b>mRNA Refseq</b>     | <a href="#">NM_001312893.1</a>                                            |
| <b>Protein Refseq</b>  | <a href="#">NP_001299822.1</a>                                            |
| <b>UniProt ID</b>      | <a href="#">Q9WVJ5</a>                                                    |

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## SDS-PAGE



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