

## CRYAB 抗原(重组蛋白)

中文名称: CRYAB 抗原(重组蛋白)

英文名称: CRYAB Antigen (Recombinant Protein)

别 名: CRYA2; CTPP2; HSPB5; CMD1II

储 存: 冷冻(-20℃)

相关类别: 抗原

概述

Full length fusion protein

## 技术规格

Full name:	crystallin, alpha B
Synonyms:	CRYA2; CTPP2; HSPB5; CMD1II
Swissprot:	P02511
Gene Accession:	BC007008
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
Background:	Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of ver tebrate eye lens and maintains the transparency and refractive index of the lens. Since lens central fiber cells lose their nuclei during dev elopment, these crystallins are made and then retained throughout li fe, making them extremely stable proteins. Mammalian lens crystallin s are divided into alpha, beta, and gamma families; beta and gamma



crystallins are also considered as a superfamily. Alpha and beta famil ies are further divided into acidic and basic groups. Seven protein re gions exist in crystallins: four homologous motifs, a connecting pepti de, and N- and C-terminal extensions. Alpha crystallins are compose d of two gene products: alpha-A and alpha-B, for acidic and basic, r espectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (sHSP also known as the HSP20) family. They act as molecular chaperones although they do n ot renature proteins and release them in the fashion of a true chape rone; instead they hold them in large soluble aggregates. Post-transl ational modifications decrease the ability to chaperone. These hetero geneous aggregates consist of 30-40 subunits; the alpha-A and alph a-B subunits have a 3:1 ratio, respectively. Two additional functions of alpha crystallins are an autokinase activity and participation in the intracellular architecture. Alpha-A and alpha-B gene products are diff erentially expressed; alpha-A is preferentially restricted to the lens an d alpha-B is expressed widely in many tissues and organs. Elevated expression of alpha-B crystallin occurs in many neurological diseases; a missense mutation cosegregated in a family with a desmin-related myopathy.