abcam

Product datasheet

Recombinant human alpha A Crystallin/CRYAA protein ab48778

2 References 画像数 2

製品の詳細

製品名	Recombinant human alpha A Crystallin/CRYAA protein
精製度	> 90 % SDS-PAGE.
発現系	Escherichia coli
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	MDVTIQHPWF KRTLGPFYPS RLFDQFFGEG LFEYDLLPFL SSTISPYYRQ SLFRTVLDSG ISEVRSDRDK FVIFLDVKHF SPEDLTVKVQ DDFVEIHGKH NERQDDHGYI SREFHRRYRL PSNVDQSALS CSLSADGMLT FCGPKIQTGL DATHAERAIP VSREEKPTSA PSS
領域	1 to 173

特性

Our **Abpromise guarantee** covers the use of **ab48778** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Functional Studies SDS-PAGE Western blot
製品の状態	Liquid
備考	This product was previously labelled as alpha A Crystallin

前処理および保存

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

pH: 7.50
Constituents: 0.316% Tris HCl, 0.0292% EDTA, 0.29% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

機能

May contribute to the transparency and refractive index of the lens.

関連疾患

Defects in CRYAA are a cause of cataract autosomal dominant (ADC) [MIM:604219]. Cataract is an opacification of the crystalline lens of the eye that frequently results in visual impairment or blindness. Opacities vary in morphology, are often confined to a portion of the lens, and may be static or progressive. In general, the more posteriorly located and dense an opacity, the greater the impact on visual function. Cataract is the most common treatable cause of visual disability in childhood.

配列類似性

Belongs to the small heat shock protein (HSP20) family.

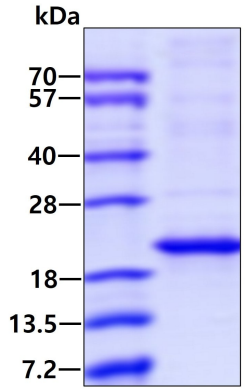
翻訳後修飾

O-glycosylated; contains N-acetylglucosamine side chains.
Deamidation of Asn-101 in lens occurs mostly during the first 30 years of age, followed by a small additional amount of deamidation (approximately 5%) during the next approximately 38 years, resulting in a maximum of approximately 50% deamidation during the lifetime of the individual. Phosphorylation on Ser-122 seems to be developmentally regulated. Absent in the first months of life, it appears during the first 12 years of human lifetime. The relative amount of phosphorylated form versus unphosphorylated form does not change over the lifetime of the individual.

細胞内局在

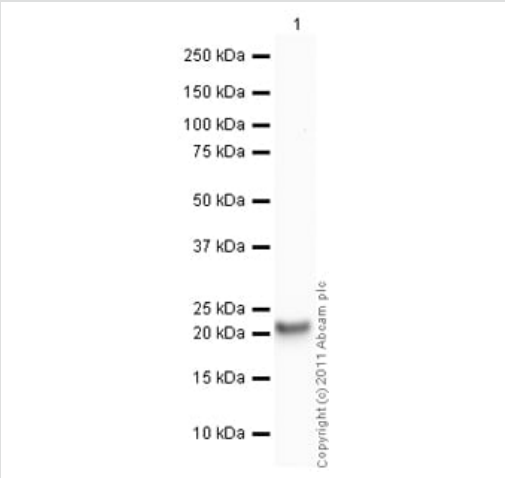
Cytoplasm. Nucleus. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.

画像



SDS-PAGE - Recombinant human alpha A Crystallin/CRYAA protein (ab48778)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.



Western blot - Recombinant human alpha A Crystallin/CRYAA protein (ab48778)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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