abcam

Product datasheet

Recombinant Human CRALBP protein (denatured) ab177594

1 Image

Description

Product name	Recombinant Human CRALBP protein (denatured)
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P12271
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSEGVGT FRMVPEEEQE LRAQLEQLTT KDHGPVFGPC SQLPRHTLQK AKDELNEREE TREEAVRELQ EMVQAQAASG EELAVAVAER VQEKDSGFFL RFIRARKFNV GRAYELLRGY VNFRLQYPEL FDSLSPEAVR CTIEAGYPGV LSSRDKYGRV VMLFNIENWQ SQEITFDEIL QAYCFILEKL LENEETQING FCIIENFKGF TMQQAASLRT SDLRKMVDML QDSFPARFKA IHFIHQPWYF TTTYNVVKPF LKSKLLERVF VHGDDLSGFY QEIDENILPS DFGGTLPKYD GKAVAEQLFG PQAQAENTAF
Predicted molecular weight	39 kDa including tags
Amino acids	1 to 317
Tags	His tag N-Terminus
Additional sequence information	NP_000317

Specifications

Our **Abpromise guarantee** covers the use of **ab177594** in the following tested applications.

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

Applications	SDS-PAGE

Form	Liquid

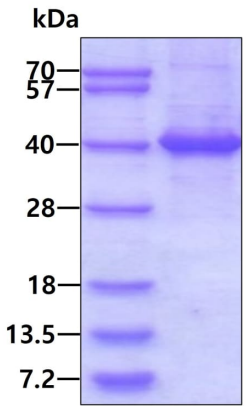
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.32% Tris HCl, 2.4% Urea, 10% Glycerol (glycerin, glycerine)

General Info

Function	Soluble retinoid carrier essential the proper function of both rod and cone photoreceptors. Participates in the regeneration of active 11-cis-retinol and 11-cis-retinaldehyde, from the inactive 11-trans products of the rhodopsin photocycle and in the de novo synthesis of these retinoids from 11-trans metabolic precursors. The cycling of retinoids between photoreceptor and adjacent pigment epithelium cells is known as the 'visual cycle'.
Tissue specificity	Retina and pineal gland. Not present in photoreceptor cells but is expressed abundantly in the adjacent retinal pigment epithelium (RPE) and in the Mueller glial cells of the retina.
Involvement in disease	Defects in RLBP1 are a cause of retinitis pigmentosa autosomal recessive (ARRP) [MIM:268000]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. Defects in RLBP1 are the cause of Bothnia retinal dystrophy (BRD) [MIM:607475]; also known as Vasterbotten dystrophy. Affected individuals show night blindness from early childhood with features consistent with retinitis punctata albescens and macular degeneration. Defects in RLBP1 are the cause of rod-cone dystrophy Newfoundland (NFRCD) [MIM:607476]. NFRCD is a retinal dystrophy reminiscent of retinitis punctata albescens but with a substantially lower age at onset and more-rapid and distinctive progression. Rod-cone dystrophies results from initial loss of rod photoreceptors, later followed by cone photoreceptors loss. Defects in RLBP1 are a cause of fundus albipunctatus (FA) [MIM:136880]. FA is a rare form of stationary night blindness characterized by a delay in the regeneration of cone and rod photopigments.
Sequence similarities	Contains 1 CRAL-TRIO domain.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant Human CRALBP protein (denatured) (ab177594)

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

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

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