abcam

Product datasheet

Recombinant Human RS1 protein ab159464

1 Image

Description

Product name	Recombinant Human RS1 protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MSRKIEGFLLLLLFGYEATLGLSSTEDEGEDPWYQKACKC DCQGGPNALW SAGATSLDCIPECPYHKPLGFESGEVTPDQITCSNPEQYV GWYSSWTANK ARLNSQGFGCAWLSKFQDSSQWLQIDLKEIKVISGILTQGR CDIDEWMTK YSVQYRTDERLNWIYYKDQTGNNRVFYGNSDRTSTVQNLL RPPIISRFIR LIPLGWHVRIAIRMELLECVSKCA
Amino acids	1 to 224
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab159464** in the following tested applications.

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

Applications	Western blot ELISA
Form	Liquid
Additional notes	

Preparation and Storage

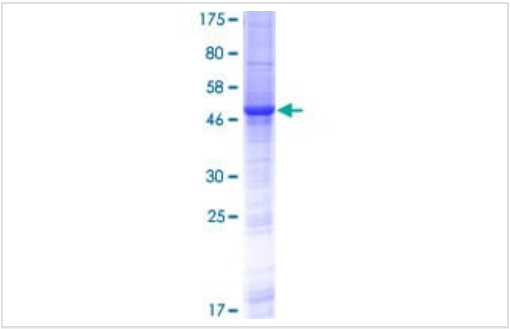
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	May be active in cell adhesion processes during retinal development.
Tissue specificity	Restricted to the retina (at protein level). At the mRNA level, detected only within the photoreceptor cell layer, most prominently within the inner segments of the photoreceptors. Undetectable in the inner plexiform layers and the inner nuclear layer. At the protein level, found in the inner segment of the photoreceptors, the inner nuclear layer, the inner plexiform layer and the ganglion cell layer. At the macula, expressed in both the outer and inner nuclear layers and in the inner plexiform layer (at protein level).
Involvement in disease	Defects in RS1 are the cause of retinoschisis juvenile X-linked type 1 (XLRS1) [MIM:312700]. A vitreo-retinal dystrophy characterized by macular pathology and by splitting of the superficial layer of the retina. Macular changes are present in almost all cases. In the fundi, radially oriented intraretinal foveomacular cysts are seen in a spoke-wheel configuration, with the absence of foveal reflex in most cases. In addition, approximately half of cases have bilateral peripheral retinoschisis in the inferotemporal part of the retina. Aside from the typical fundus appearance, strabismus, nystagmus, axial hyperopia, defective color vision and foveal ectopy can be present. The most important complications are vitreous hemorrhage, retinal detachment, and neovascular glaucoma.
Sequence similarities	Contains 1 F5/8 type C domain.
Developmental stage	Up-regulated during the differentiation of a retinoblastoma cell line.
Cellular localization	Secreted.

Images



SDS-PAGE - Recombinant Human RS1 protein (ab159464)

ab159464 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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

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