abcam

Product datasheet

Recombinant Human Sigma1-receptor protein ab160924

1 References 1 Image

Overview

Product name	Recombinant Human Sigma1-receptor protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Accession	Q99720
Species	Human
Sequence	MQWAVGRRWAWAALLLAVAAVLTQVVWLWLGTQSF VFQREEIAQLARQYA GLDHELAFSRLIVELRRLHPGHVLPDEELQWVFVNAG GWMGAMCLLHASL SEYVLLFGTALGSRGHSGRYWAEISDTIISGTFHQWRE GTTKSEVFYPGE TVVHGPGEATAVEWGPNTWMVEYGRGVIPSTLAFALA DTVFSTQDFLTLF YTLRSYARGLRLELTTYLFGQDP
Amino acids	1 to 223
Tags	proprietary tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab160924** 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	Protein concentration is above or equal to 0.05 mg/mL.

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

Functions in lipid transport from the endoplasmic reticulum and is involved in a wide array of cellular functions probably through regulation of the biogenesis of lipid microdomains at the plasma membrane. Involved in the regulation of different receptors it plays a role in BDNF signaling and EGF signaling. Also regulates ion channels like the potassium channel and could modulate neurotransmitter release. Plays a role in calcium signaling through modulation together with ANK2 of the ITP3R-dependent calcium efflux at the endoplasmic reticulum. Plays a role in several other cell functions including proliferation, survival and death. Originally identified for its ability to bind various psychoactive drugs it is involved in learning processes, memory and mood alteration.

Tissue specificity

Widely expressed with higher expression in liver, colon, prostate, placenta, small intestine, heart and pancreas. Expressed in the retina by retinal pigment epithelial cells.

Involvement in disease

Amyotrophic lateral sclerosis 16, juvenile

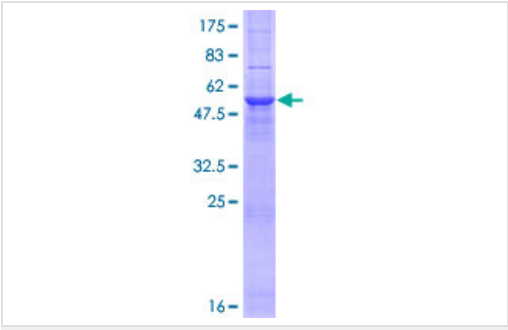
Sequence similarities

Belongs to the ERG2 family.

Cellular localization

Nucleus inner membrane. Nucleus outer membrane. Endoplasmic reticulum membrane. Lipid droplet. Cell junction. Cell membrane. Cell projection > growth cone. Targeted to lipid droplets, cholesterol and galactosylceramide-enriched domains of the endoplasmic reticulum. Enriched at cell-cell communication regions, growth cone and postsynaptic structures. Localization is modulated by ligand-binding.

Images



SDS-PAGE - Recombinant Human Sigma1-receptor protein (ab160924)

ab160924 on a 12.5% SDS-PAGE stained with Coomassie Blue.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors