

Product datasheet

Recombinant Human SRPK2 protein ab159582

1 Image

Overview

<b>Product name</b>	Recombinant Human SRPK2 protein
<b>Protein length</b>	Full length protein

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human

<b>Sequence</b>	<p>MSSRKVLAIQARKRRPKREKHPKKPEPQQKAPLVPPP          PPPPPPPPPPLPD          PTPPEPEEEILGSDDEEQEDPADYCKGGYHPVKIGDL          FNGRYHVIRKLGW          GHFSTVWLCWDMQGKRFVAMKVVKSAQHYTETALD          EIKLLKCVRES DPSD          PNKDMVVQLIDDFKISGMNGIHVCMVFEVLGHHLLKWII          KSNYQGLPVRC          VKSIIRQVLQGLDYLSKCKIIHTDIKPENILMCVDDAYVR          RMAAEATEW          QKAGAPPPSGSAVSTAPQQKPIGKISKNNKKKLLKKKQ          KRQAEELLEKRLQE          IEELERAERKIIENITSAAPSNDQDGEYCPEVKLKT          GLEEAEEAETA          KDNGEAEDQEEKEDAENIEKDEDDVDQELANIDPT          WIESPKTNGHIEN          GPFSLQQLDDEDDDEEDCPNPEEYNLDEPNAESDY          TYSSSYEQFNGELP          NGRHKIPESQFPEFSTSLFSGSLEPVACGSVLSEGSP          LTEQEESSPSHDR          SRTVSASSTGDLPKAKTRAADLLVNPLDPRNADKIRV          KIADLGACWVHK          HFTEDIQTRQYRSIEVLIGAGYSTPADWSTACMAFELA          TGDYLFEPHSG          EDYSRDEDHIAHIIELLGSIPRHFALSGKYSREFFNRRG          ELRHITKLPW</p>
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<b>Amino acids</b>	1 to 699
<b>Tags</b>	GST tag N-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab159582** in the following tested applications.

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

<b>Applications</b>	ELISA Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml.

## Preparation and Storage

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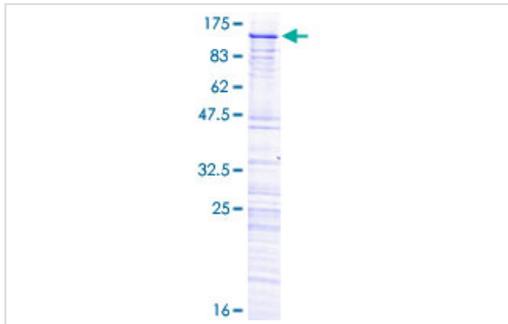
<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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## General Info

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<b>Function</b>	Serine/arginine-rich protein-specific kinase which specifically phosphorylates its substrates at serine residues located in regions rich in arginine/serine dipeptides, known as RS domains and is involved in the phosphorylation of SR splicing factors and the regulation of splicing. Promotes neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression. This is done by the phosphorylation of SRSF2, leading to the suppression of p53/TP53 phosphorylation thereby relieving the repressive effect of p53/TP53 on cyclin-D1 (CCND1) expression. Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation. Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28. Can mediate hepatitis B virus (HBV) core protein phosphorylation. Plays a negative role in the regulation of HBV replication through a mechanism not involving the phosphorylation of the core protein but by reducing the packaging efficiency of the pregenomic RNA (pgRNA) without affecting the formation of the viral core particles.
<b>Tissue specificity</b>	Highly expressed in brain, moderately expressed in heart and skeletal muscle and at low levels in lung, liver, and kidney.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. Contains 1 protein kinase domain.
<b>Post-translational modifications</b>	Phosphorylation at Thr-492 by PKB/AKT1 enhances its stimulatory activity in triggering cyclin-D1 (CCND1) expression and promoting apoptosis in neurons, which can be blocked by YWHAB. It also enhances its protein kinase activity toward ACIN1 and SRSF2, promotes its nuclear translocation and prevents its proteolytic cleavage. Proteolytically cleaved at Asp-139 and Asp-403 by caspase-3 during apoptotic cell death. Cleavage at Asp-139 which is the major site of cleavage, produces a small N-terminal fragment that translocates into nucleus and promotes VP16-induced apoptosis.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm. KAT5/TIP60 inhibits its

## Images



ab159582 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human SRPK2 protein  
(ab159582)

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

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