ANTIBODIES ONLINE

Datasheet for ABIN6259197 anti-SRPK1 antibody (C-Term)

Image



Overview

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Quantity:	100 μL
Target:	SRPK1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SRPK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	A synthesized peptide derived from human SRPK1, corresponding to a region within C-terminal amino acids.
lsotype:	lgG
Specificity:	SRPK1 Antibody detects endogenous levels of total SRPK1.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target: SRPK1

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Target Details	
Alternative Name:	SRPK1 (SRPK1 Products)
Background:	Description: 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. Plays a central role in the regulatory network for splicing, controlling the intranuclear
	distribution of splicing factors in interphase cells and the reorganization of nuclear speckles
	during mitosis. Can influence additional steps of mRNA maturation, as well as other cellular
	activities, such as chromatin reorganization in somatic and sperm cells and cell cycle
	progression. Isoform 2 phosphorylates SFRS2, ZRSR2, LBR and PRM1. Isoform 2
	phosphorylates SRSF1 using a directional (C-terminal to N-terminal) and a dual-track
	mechanism incorporating both processive phosphorylation (in which the kinase stays attached
	to the substrate after each round of phosphorylation) and distributive phosphorylation steps (in
	which the kinase and substrate dissociate after each phosphorylation event). The RS domain of
	SRSF1 binds first to a docking groove in the large lobe of the kinase domain of SRPK1. This
	induces certain structural changes in SRPK1 and/or RRM2 domain of SRSF1, allowing RRM2 to
	bind the kinase and initiate phosphorylation. The cycles continue for several phosphorylation
	steps in a processive manner (steps 1-8) until the last few phosphorylation steps
	(approximately steps 9-12). During that time, a mechanical stress induces the unfolding of the
	beta-4 motif in RRM2, which then docks at the docking groove of SRPK1. This also signals
	RRM2 to begin to dissociate, which facilitates SRSF1 dissociation after phosphorylation is
	completed. Isoform 2 can mediate hepatitis B virus (HBV) core protein phosphorylation. It 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. Isoform 1 and isoform
	2 can induce splicing of exon 10 in MAPT/TAU. The ratio of isoform 1/isoform 2 plays a
	decisive role in determining cell fate in K-562 leukaemic cell line: isoform 2 favors proliferation
	where as isoform 1 favors differentiation.
	Gene: SRPK1
Molecular Weight:	95 kDa
Gene ID:	6732
UniProt:	Q96SB4
Pathways:	Toll-Like Receptors Cascades

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Application Details	
Application Notes:	WB 1:500-1:1000, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

12 months

Expiry Date:

Images



Western Blotting

Image 1. Western blot analysis of extracts from K562 cells using SRPK1 antibody.The lane on the left is treated with the antigen-specific peptide.

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