Datasheet for ABIN968353

anti-SRPK1 antibody (AA 312-434)

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Overview

Quantity:	50 µg
Target:	SRPK1
Binding Specificity:	AA 312-434
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SRPK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human SRPK1 aa.312-434
Clone:	12-SRPK1
Isotype:	IgG1
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

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Product Details

chromatography.

Target Details

Target:	SRPK1
Alternative Name:	SRPK1 (SRPK1 Products)
Background:	Mammalian cell pre-mRNA splicing is mediated by the spliceosome, a multi-component complex that contains two types of splicing factors: small nuclear ribonucleoprotein particles (snRNPs) and non-snRNP factors. Interactions between snRNPs and pre-mRNA ensures proper establishment of a catalytic core for the splicing reaction. However, these interactions are mediated by the non-snRNP factors. The super family of Arg/Ser-rich (RS) domain containing splicing factors are well known non-snRNPs. All of these proteins share a similar structure consisting of an N-terminal RNA recognition motif and a C-terminal RS domain. However, different SR factors have distinct specificities and function is regulated by their level of expression and by reversible phosphorylation. Two families of kinases phosphorylate SR domain-containing proteins: SR protein-specific kinases (SRPK1 and 2) and Clk/Sty. SRPL1 is specific for SR domain-containing splicing factors because it recognizes only Arg and phosphorylates only Ser. SRPK1 is expressed predominately in the pancreas, domain-containing splicing factors because it recognizes only Arg and phosphorylates only Ser. SRPK1 is expressed predominately in the pancreas, whereas SRPK2 is highly expressed in brain. SRPKs affect splice-site selection and are thought to affect alternative splicing.
Molecular Weight:	92 kDa
Pathways:	Toll-Like Receptors Cascades

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

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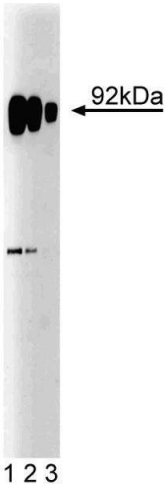
Handling

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 undiluted at -20° C.

Publications

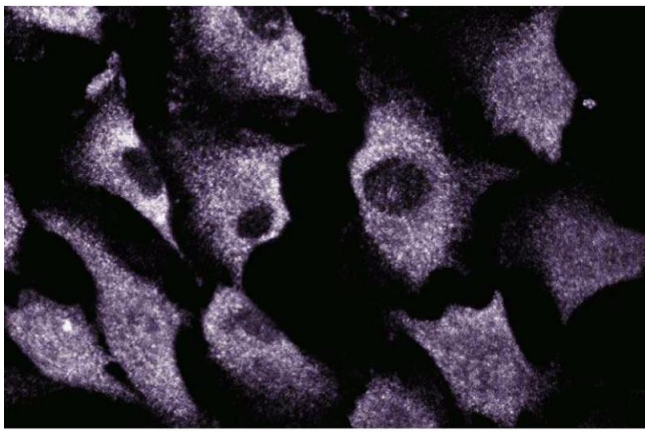
Product cited in:	Wang, Lin, Dyck, Yeakley, Songyang, Cantley, Fu: "SRPK2: a differentially expressed SR protein-specific kinase involved in mediating the interaction and localization of pre-mRNA splicing factors in mammalian cells." in: **The Journal of cell biology**, Vol. 140, Issue 4, pp. 737-50, (1998) (PubMed). Colwill, Feng, Yeakley, Gish, Cáceres, Pawson, Fu: "SRPK1 and Clk/Sty protein kinases show distinct substrate specificities for serine/arginine-rich splicing factors." in: **The Journal of biological chemistry**, Vol. 271, Issue 40, pp. 24569-75, (1996) (PubMed).

Images



Western Blotting

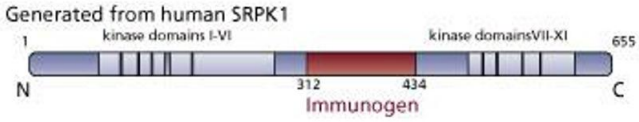
Image 1. Western blot analysis of SRPK1 on HeLa cell lysate. Lane 1:1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-SRPK1.



Immunofluorescence

Image 2. Immunofluorescent staining of EaHy cells.

Image 3.



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