Technical Data Sheet

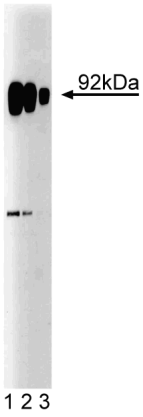
Purified Mouse Anti-SRPK1

Product Information

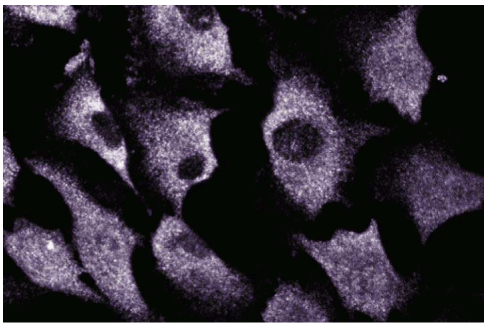
Material Number:	**611072**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	12/SRPK1
Immunogen:	Human SRPK1 aa.312-434
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog, Rat, Mouse
Target MW:	92 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

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.



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.*



Immunofluorescent staining of EaHy cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:
Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml.

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols 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.

References

Colwill K, Feng LL, Yeakley JM. SRPK1 and Clk/Sty protein kinases show distinct substrate specificities for serine/arginine-rich splicing factors. *J Biol Chem.* 1996; 271(40):24569-24575.(Biology)

Wang HY, Lin W, Dyck JA. SRPK2: a differentially expressed SR protein-specific kinase involved in mediating the interaction and localization of pre-mRNA splicing factors in mammalian cells. *J Cell Biol.* 1998; 140(4):737-750.(Biology)