

Rabbit anti-Human SRSF protein kinase 1 Polyclonal Antibody | anti-SRPK1 antibody

Rabbit anti-human SRSF protein kinase 1 polyclonal Antibody(SRPK1)

CATALOG # AAA119306	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

SRSF protein kinase 1; Polyclonal Antibody; Rabbit anti-human SRSF protein kinase 1 polyclonal Antibody(SRPK1); SFRS protein kinase 1; Serine/arginine-rich protein-specific kinase 1; SR-protein-specific kinase 1; SRPK1;; anti-SRPK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purified
Sequence Length	655
Applicable Applications for anti-SRPK1 antibody	IHC (Immunohistochemistry), ELISA
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Conjugate	Non-conjugated
Immunogen	Recombinant human SRSF protein kinase 1 protein(290-480aa)
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-11305 / sc-11306 / sc-50343
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



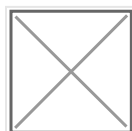
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human liver cancer using AAA119306 at dilution 1:100



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human rectum using AAA119306 at dilution 1:100



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human breast cancer using AAA119306 at dilution 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-SRPK1 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47419936
NCBI GeneID	6732
NCBI Accession #	NP_003128.3
NCBI GenBank Nucleotide #	NM_003137.4
UniProt Accession #	Q96SB4 ; Q12890 ; Q5R364 ; Q5R365 ; Q8IY12 ; B4DS61
Molecular Weight	72,383 Da
NCBI Official Full Name	SRSF protein kinase 1
NCBI Official Synonym Full Names	SRSF protein kinase 1
NCBI Official Symbol	SRPK1
NCBI Official Synonym Symbols	SFRSK1
NCBI Protein Information	SRSF protein kinase 1
UniProt Protein Name	SRSF protein kinase 1
UniProt Gene Name	SRPK1
UniProt Synonym Gene Names	SR-protein-specific kinase 1
UniProt Entry Name	SRPK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/srsf-protein-kinase-1-antibody-immunohistochemistry-elisa/119306>