

Rabbit SRPK2 Polyclonal Antibody | anti-SRPK2 antibody

Phospho-SRPK2 (Ser494/Ser497) Antibody

CATALOG # AAA31293	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

SRPK2; Polyclonal Antibody; Phospho-SRPK2 (Ser494/Ser497) Antibody; Human serine kinase SRPK2 mRNA; complete cds; Serine kinase SRPK2; Serine/arginine rich protein specific kinase 2; Serine/arginine-rich protein-specific kinase 2; Serine/threonine protein kinase SRPK2; SFRS protein kinase 2; SFRSK2; SR protein specific kinase 2; SR-protein-specific kinase 2; SRPK2_HUMAN; SRSF protein kinase 2 C-terminal; anti-SRPK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-SRPK2 (Ser494/Ser497) Antibody detects endogenous levels of SRPK2 only when phosphorylated at Ser494/497. Tissue Specificity: Highly expressed in brain, moderately expressed in heart and skeletal muscle and at low levels in lung, liver, and kidney.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-SRPK2 antibody	IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human SRPK2 around the phosphorylation site of Ser494/497.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	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.
Subunit Structure	Interacts with PKB/AKT1 in a phosphorylation-dependent manner. The phosphorylated form (by PKB/AKT1) interacts with YWHAB and YWHAЕ. Interaction with YWHAB suppresses its cleavage by caspases and inhibits the release of its N-terminal pro-apoptotic fragment. Interacts with SFN. Associates with U4/U6-U5 tri-small nuclear ribonucleoproteins (U4/U6-U5 tri-snRNPs).
Similarity	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family.

Subcellular Location	Cytoplasm. Nucleus. Note: Shuttles between the nucleus and the cytoplasm. KAT5/TIP60 inhibits its nuclear translocation. Phosphorylation at Thr-492 by PKB/AKT1 promotes nuclear translocation.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

At 1/100 staining Human gastric cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human prostate cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human kidney cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human ovarian cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Human ovarian cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SRPK2 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. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	33188447
NCBI GeneID	6733
NCBI Accession #	NP_872633
NCBI GenBank Nucleotide #	NM_182691
UniProt Accession #	P78362; O75220; O75221; Q6NUL0; Q6V1X2; Q8IYQ3; A8MVX2

Molecular Weight	79,029 Da
NCBI Official Full Name	SRSF protein kinase 2 isoform b
NCBI Official Synonym Full Names	SRSF protein kinase 2
NCBI Official Symbol	SRPK2
NCBI Official Synonym Symbols	SFRSK2
NCBI Protein Information	SRSF protein kinase 2; SFRS protein kinase 2; SR protein kinase 2; SR-protein-specific kinase 2; SRPK2; serine kinase SRPK2; serine/arginine-rich protein-specific kinase 2; serine/arginine-rich splicing factor kinase 2; serine/threonine-protein kinase SRP
UniProt Protein Name	SRSF protein kinase 2
UniProt Gene Name	SRPK2
UniProt Synonym Gene Names	SR-protein-specific kinase 2
UniProt Entry Name	SRPK2_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/srpk2-antibody-immunohistochemistry-peptide-elisa-elisa/31293>