



SFPQ Polyclonal Antibody

Catalog No	BYab-07666
Isotype	lgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	SFPQ PSF
Protein Name	Splicing factor, proline- and glutamine-rich (100 kDa DNA-pairing protein) (hPOMp100) (DNA-binding p52/p100 complex, 100 kDa subunit) (Polypyrimidine tract-binding protein-associated-splicing factor)
Immunogen	Synthesized peptide derived from part region of human protein AA range: 572-622
Specificity	SFPQ Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	77kD
Cell Pathway	Nucleus speckle . Nucleus matrix . Cytoplasm . Predominantly in nuclear matrix
Tissue Specificity	Brain,Epithelium,Fetal brain,Fetal brain cortex,Fetal skele
Function	alternative products:Additional isoforms seem to exist,caution:Was originally (PubMed:2480877) thought to be myoblast cell surface antigen 24.1D5 and a possible membrane-bound protein ectokinase.,disease:A chromosomal aberration involving SFPQ may be a cause of papillary renal cell carcinoma (PRCC). Translocation t(X;1)(p11.2;p34) with TFE3.,function:DNA- and RNA binding protein, involved in several nuclear processes. Essential pre-mRNA splicing factor required early in spliceosome formation and for splicing catalytic step II, probably as an heteromer with NONO. Binds to pre-mRNA in spliceosome C complex, and specifically binds to intronic polypyrimidine tracts. Interacts with U5 snRNA, probably by binding to a purine-rich sequence located on the 3' side of

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U5 snRNA stem 1b. May be involved in a pre-mRNA coupled splicing and polyadenylation process as component of a snRNP-free complex wi

alternative products: Additional isoforms seem to exist, caution: Was originally Background (PubMed:2480877) thought to be myoblast cell surface antigen 24.1D5 and a possible membrane-bound protein ectokinase., disease: A chromosomal aberration involving SFPQ may be a cause of papillary renal cell carcinoma (PRCC). Translocation t(X;1)(p11.2;p34) with TFE3., function:DNA- and RNA binding protein, involved in several nuclear processes. Essential pre-mRNA splicing factor required early in spliceosome formation and for splicing catalytic step II, probably as an heteromer with NONO. Binds to pre-mRNA in spliceosome C complex, and specifically binds to intronic polypyrimidine tracts. Interacts with U5 snRNA, probably by binding to a purine-rich sequence located on the 3' side of U5 snRNA stem 1b. May be involved in a pre-mRNA coupled splicing and polyadenylation process as component of a snRNP-free complex with SNRPA/U1A. The SFPQ-NONO heteromer associated with MATR3 may play a role in nuclear retention of defective RNAs. SFPQ may be involved in homologous DNA pairing; in vitro, promotes the invasion of ssDNA between a duplex DNA and produces a D-loop formation. The SFPQ-NONO heteromer may be involved in DNA unwinding by modulating the function of topoisomerase I/TOP1; in vitro, stimulates dissociation of TOP1 from DNA after cleavage and enhances its jumping between separate DNA helices. The SFPQ-NONO heteromer may be involved in DNA nonhomologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination and may stabilize paired DNA ends; in vitro, the complex strongly stimulates DNA end joining, binds directly to the DNA substrates and cooperates with the Ku70/G22P1-Ku80/XRCC5 (Ku) dimer to establish a functional preligation complex. SFPQ is involved in transcriptional regulation. Transcriptional repression is probably mediated by an interaction of SFPQ with SIN3A and subsequent recruitment of histone deacetylases (HDACs). The SFPQ-NONO/SF-1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional avtivity. SFPQ isoform Long binds to the DNA binding domains (DBD) of nuclear hormone receptors, like RXRA and probably THRA, and acts as transcriptional corepressor in absence of hormone ligands. Binds the DNA sequence 5'-CTGAGTC-3' in the insulin-like growth factor response element (IGFRE) and inhibits IGF-I-stimulated transcriptional activity.,PTM:Arg-7, Arg-9, Arg-19 and Arg-25 are dimethylated, probably to asymmetric dimethylarginine.,PTM:Phosphorylated on multiple serine and threonine residues during apoptosis. In vitro phosphorylated by PKC Phosphorylation stimulates binding to DNA and D-loop formation, but inhibits binding to RNA.,PTM:The N-terminus is blocked.,similarity:Contains 2 RRM (RNA recognition motif) domains.,subcellular location:Predominantly in nuclear matrix.,subunit:Interacts with PSPC1 (By similarity). Monomer and component of the SFPQ-NONO complex, which is probably a heterotetramer of two 52 kDa (NONO) and two 100 kDa (SFPQ) subunits. SFPQ is a component of spliceosome and U5.4/6 snRNP complexes. Interacts with SNRPA/U1A. Component of a snRNP-free complex with SNRPA/U1A. Part of complex consisting of SFPQ, NONO and MATR3. Interacts with polypyrimidine tract-binding protein 1/PTB. Part of a complex consisting of SFPQ, NONO and NR5A1/SF-1. Interacts with RXRA, probably TUPA, and SNR2A listeracte with TOP1. Part of a complex consisting of SFPQ. probably THRA, and SIN3A. Interacts with TOP1. Part of a complex consisting of SFPQ, NONO and TOP1. Interacts with SNRNP70 in apoptotic cells (By similarity). Interacts with RNF43., Avoid repeated freezing and thawing! matters needing attention This product can be used in immunological reaction related experiments. For Usage suggestions more information, please consult technical personnel.

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