



PSPC1 Monoclonal Antibody

Catalog No	YP-mAb-05900
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	PSPC1 PSP1
Protein Name	Paraspeckle component 1 (Paraspeckle protein 1)
Immunogen	Synthesized peptide derived from human protein . at AA range: 10-90
Specificity	PSPC1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	57kD
Cell Pathway	Nucleus, nucleolus. Nucleus matrix . Cytoplasm . Nucleus speckle. In punctate subnuclear structures often located adjacent to splicing speckles, called paraspeckles. Colocalizes with NONO and SFPQ in paraspeckles and perinucleolar caps in an RNA-dependent manner. May cycle between paraspeckles and nucleolus. In telophase, when daughter nuclei form, localizes to perinucleolar caps.
Tissue Specificity	Expressed in pancreas, kidney, skeletal muscle, liver, lung, placenta, brain and heart.
Function	function:Regulates, cooperatively with NONO and SFPQ, androgen receptor-mediated gene transcription activity in Sertoli cell line (By similarity). Binds to poly(A), poly(G) and poly(U) RNA homopolymers.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence caution:Translated as Lys.,similarity:Belongs to the PSPC family.,similarity:Contains 2 RRM (RNA recognition motif) domains.,subcellular location:In punctate subnuclear structures often located adjacent to splicing speckles, called paraspeckles. Colocalizes with NONO and SFPQ in paraspeckles and perinucleolar caps in a RNA-dependent manner. May cycles between paraspeckles and nucleolus. In telophase, when daughter nuclei form, localizes to perinucleolar caps.,subunit:Forms heterodimers with NONO. Found in a RNP complex with CAT2 transcribed nuclear RNA



(CTN-RNA). Interaction with NONO is required for its targeting to par

Background

This gene encodes a nucleolar protein that localizes to punctate subnuclear structures that occur close to splicing speckles, known as paraspeckles. These paraspeckles are composed of RNA-protein structures that include a non-coding RNA, NEAT1/Men epsilon/beta, and the Drosophila Behavior Human Splicing family of proteins, which include the product of this gene and the P54NRB/NONO and PSF/SFPQ proteins. Paraspeckles may function in the control of gene expression via an RNA nuclear retention mechanism. The protein encoded by this gene is found in paraspeckles in transcriptionally active cells, but it localizes to unique cap structures at the nucleolar periphery when RNA polymerase II transcription is inhibited, or during telophase. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene, which is also located on chromosome 13, has been identified. [provided by

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images