



PRP19 Monoclonal Antibody

Catalog No	YP-mAb-00501
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PRPF19
Immunogen	The antiserum was produced against synthesized peptide derived from human PRPF19. AA range:171-220
Specificity	PRP19 Monoclonal Antibody detects endogenous levels of PRP19 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA 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	EC:2.3.2.27;hPso4;Pre-mRNA-processing factor 19;PRP19;PSO4;PRPF19;NMP200;SNEV;Nuclear matrix protein 200;PRP19/PSO4 homolog;Senescence evasion factor
Observed Band	50kD
Calculated Molecular Weight	50kD
Cell Pathway	Nucleus . Nucleus, nucleoplasm . Cytoplasm, cytoskeleton, spindle . Cytoplasm . Lipid droplet . Nucleoplasmic in interphase cells. Irregularly distributed in anaphase cells. In prophase cells, uniformly distributed, but not associated with condensing chromosomes. Found in extrachromosomal regions in metaphase cells. Mainly localized to the mitotic spindle apparatus when chromosomes segregate during anaphase. When nuclei reform during late telophase, uniformly distributed in daughter cells and displays no preferred association with decondensing chromatin. Recruited on damaged DNA at sites of double-strand break. .
Tissue Specificity	Ubiquitous. Weakly expressed in senescent cells of different tissue origins. Highly expressed in tumor cell lines.



Function

function: Plays a role in DNA double-strand break (DSB) repair and pre-mRNA splicing reaction. Binds double-stranded DNA in a sequence-nonspecific manner. Acts as a structural component of the nuclear framework. May also serve as a support for spliceosome binding and activity. Essential for spliceosome assembly in a oligomerization-dependent manner and might also be important for spliceosome stability. May have E3 ubiquitin ligase activity. The PSO4 complex is required in the DNA interstrand cross-links (ICLs) repair process. Overexpression of PRPF19 might extend the cellular life span by increasing the resistance to stress or by improving the DNA repair capacity of the cells.,induction: By gamma radiation and chemical mutagens but not by UV treatment.,similarity: Belongs to the WD repeat PRP19 family.,similarity: Contains 1 U-box domain.,similarity: Contains 7 WD repeats.,subcellular locatio

Background

PSO4 is the human homolog of yeast Pso4, a gene essential for cell survival and DNA repair (Beck et al., 2008 [PubMed 18263876]).[supplied by OMIM, Sep 2008],

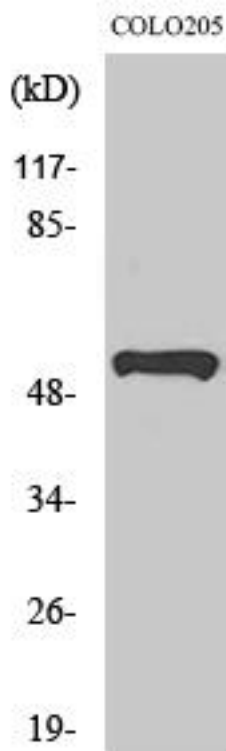
matters needing attention

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



Western Blot analysis of various cells using PRP19 Monoclonal Antibody