

Rabbit PRPF19 Polyclonal Antibody | anti-PRPF19 antibody

PRPF19 Antibody

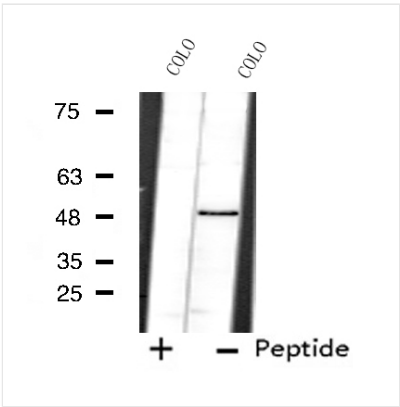
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324313	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

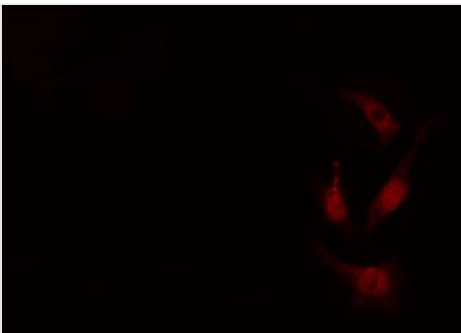
PRPF19; Polyclonal Antibody; PRPF19 Antibody; hPso4; NMP200; Nuclear matrix protein 200; Nuclear matrix protein NMP200 related to splicing factor PRP19; pre mRNA processing factor 19; Pre-mRNA-processing factor 19; PRP19; PRP19/PSO4 homolog; PRP19/PSO4 pre-mRNA processing factor 19 homolog (*S. cerevisiae*); PRP19_HUMAN; PSO4; psoralen 4; Senescence evasion factor; SNEV; UBOX4; anti-PRPF19 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PRPF19 antibody detects endogenous levels of total PRPF19
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	504
Applicable Applications for anti-PRPF19 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus. Nucleus > Nucleoplasm. Cytoplasm > Cytoskeleton > Spindle. 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.
Tissue Specificity	Ubiquitous. Weakly expressed in senescent cells of different tissue origins. Highly expressed in tumor cell lines.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from COLO cells using PRPF19 antibody.



IF (Immunofluorescence)
AAA324313 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PRPF19 antibody	Function: Ubiquitin-protein ligase which is a core component of several complexes mainly involved pre-mRNA splicing and DNA repair. Core component of the PRP19C/Prp19 complex/NTC/Nineteen complex which is part of the spliceosome and participates in its assembly, its remodeling and is required for its activity. During assembly of the spliceosome, mediates 'Lys-63'-linked polyubiquitination of the U4 spliceosomal protein PRPF3. Ubiquitination of PRPF3 allows its recognition by the U5 component PRPF8 and stabilizes the U4/U5/U6 tri-snRNP spliceosomal complex (PubMed:20595234). Recruited to RNA polymerase II C-terminal domain (CTD) and the pre-mRNA, it may also couple the transcriptional and spliceosomal machineries (PubMed:21536736). The XAB2 complex, which contains PRPF19, is also involved in pre-mRNA splicing, transcription and transcription-coupled repair (PubMed:17981804). Beside its role in pre-mRNA splicing PRPF19, as part of the PRP19-CDC5L complex, plays a role in the DNA damage response/DDR. It is recruited to the sites of DNA damage by the RPA complex where PRPF19 directly ubiquitinates RPA1 and RPA2. 'Lys-63'-linked polyubiquitination of the RPA complex allows the recruitment of the ATR-ATRIP complex and the activation of ATR, a master regulator of the DNA damage response (PubMed:24332808). May also play a role in DNA double-strand break (DSB) repair by recruiting the repair factor SETMAR to altered DNA (PubMed:18263876). As part of the PSO4 complex may also be involved in the DNA interstrand cross-links/ICLs repair process (PubMed:16223718). In addition, may also mediate 'Lys-48'-linked polyubiquitination of substrates and play a role in proteasomal degradation (PubMed:11435423). May play a role in the biogenesis of lipid droplets (By similarity). May play a role in neural differentiation possibly through its function as part of the spliceosome (By similarity). Subunit Structure: Homotetramer. Component of the Prp19 complex/PRP19C/Nineteen complex/NTC and related complexes described as PRP19-CDC5L splicing complex and PSO4 complex. A homotetramer of PRPF19, CDC5L, PLRG1 and BCAS2 constitute the core of those complexes. The interaction with CDC5L, PLRG1 and BCAS2 is direct within this core complex. At least three less stably associated proteins CTNNBL1, CWC15 and HSPA8 are found in the Prp19 complex. The Prp19 complex associates with the spliceosome during its assembly and remodeling recruiting additional proteins. Component of the XAB2 complex, a multimeric protein complex composed of XAB2, PRPF19, AQR, ZNF830, ISY1, and PPIE. Interacts with CWC22 and EIF4A3 in an RNA-independent manner. Interacts with RPA1 and RPA2; the PRP19-CDC5L complex is recruited to the sites of DNA repair where it interacts with the replication protein A complex (RPA). Interacts with SETMAR; required for SETMAR recruitment to site of DNA damage. Interacts with U2AF2; the interaction is direct and recruits the Prp19 complex to RNA polymerase II C-terminal domain (CTD) and the pre-mRNA. Interacts with PRPF3. Interacts with APEX1, DNTT and PSMB4. Interacts with PSMC5 (By similarity). Interacts with KNSTRN (PubMed:24718257). Interacts (via N-terminus) with CDC5L (By similarity). Interacts with KHDC4 (PubMed:19641227). Similarity: The 7 WD repeats are necessary and sufficient to support interaction with the RPA complex. Belongs to the WD repeat PRP19 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7657381
NCBI GeneID	27339
NCBI Accession #	NP_055317.1

NCBI GenBank Nucleotide #	NM_014502.4
UniProt Accession #	Q9UMS4
Molecular Weight	Observed: 50 kD Predicted: 56 kDa
NCBI Official Full Name	pre-mRNA-processing factor 19
NCBI Official Synonym Full Names	pre-mRNA processing factor 19
NCBI Official Symbol	PRPF19
NCBI Official Synonym Symbols	PSO4; SNEV; PRP19; UBOX4; hPSO4; NMP200
NCBI Protein Information	pre-mRNA-processing factor 19
UniProt Protein Name	Pre-mRNA-processing factor 19
UniProt Gene Name	PRPF19
UniProt Synonym Gene Names	hPso41 PublicationManual assertion based on opinion iniRef.2

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/prpf19-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324313>