Data Sheet (Cat.No.TMAC-03446)

Anti-PRP19 Antibody (7U313)

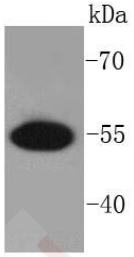
Product Details

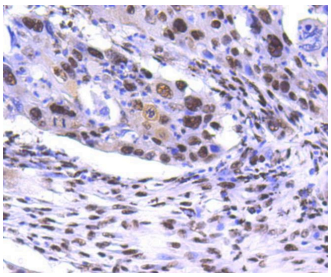
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 55 kDa.
Clone:	7U313
Purification:	ProA affinity purified

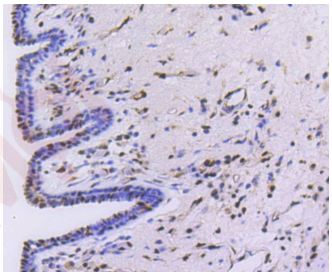
Applications

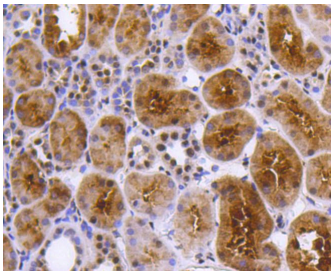
Verified Activity:

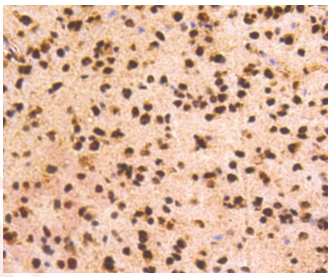
1. Western blot analysis of PRP19 on Jurkat cells lysates using anti-PRP19 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-PRP19 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-PRP19 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PRP19 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PRP19 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-PRP19 antibody. Counter stained with hematoxylin.
7. ICC staining PRP19 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining PRP19 in B16-F1 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining PRP19 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. Flow cytometric analysis of Hela cells with PRP19 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

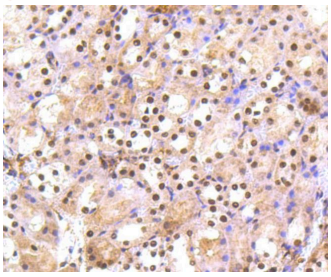


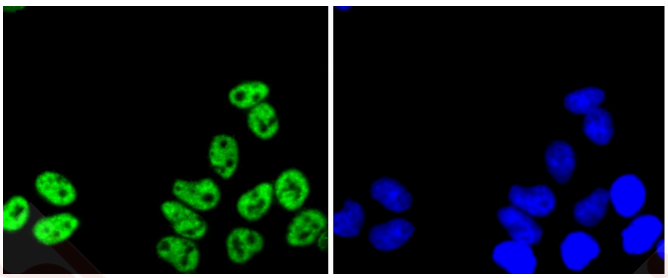


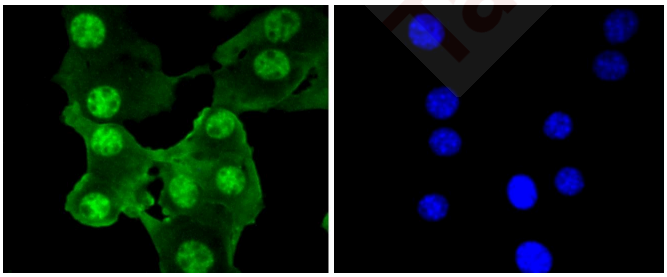


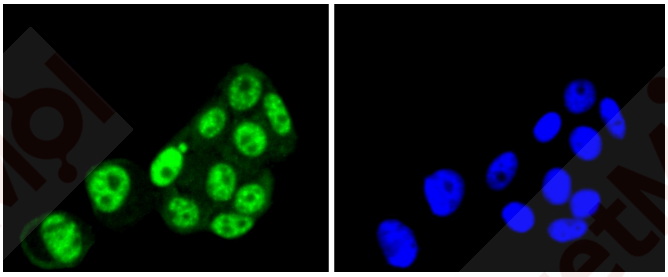


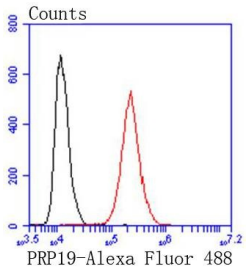












Application:	FCM,ICC,IHC,WB
Recommended	WB: 1:1000-2000; IHC: 1:50-200; ICC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q9UMS4
Synonyms:	Nuclear matrix protein 200;PRPF19;UBOX4;psoralen 4;SNEV;pre mRNA processing factor 19; PSO4;PRP 19;PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae);hPso4;Pre-mRNA-processing factor 19;NMP200;PRP19/PSO4 homolog;PRP19_HUMAN;Nuclear matrix protein NMP200 related to splicing factor PRP19;Senescence evasion factor

Research Background

The spliceosome, the 0gigantic molecular machine that performs pre-mRNA splicing in eukaryotes, contains over 200 different proteins and five RNA molecules (U1, U2, U4, U5 and U6). Pre-mRNA splicing is essential to remove internal non-coding regions of pre-mRNA (introns) and to join the remaining segments (exons) into mRNA before translation. The PRP19-associated complex is required for stable association of U5 and U6 with the spliceosome after U4 is released. Changes within the spliceosome upon binding of the PRP19-associated complex include remodeling of the U6/5' splice site interaction and destabilization of Lsm proteins to allow further interaction of U6 with the intron sequence.

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