

**Product Name:** KD-Validated Pre-mRNA Processing Factor 4 Recombinant Rabbit Monoclonal Antibody

**Catalog #:** KVA00961

For research use only.

## Summary

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC                                                                  |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

## Application

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 58.4kDa                                  |

## Antigen Information

|                          |                                                                                                                                                                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | PRPF4                                                                                                                                                                                                                                                                                                                    |
| <b>Alternative Names</b> | Pre-mRNA Processing Factor 4; PRP4; U4/U6 Small Nuclear Ribonucleoprotein Prp4; SNRNP60; HPRP4P; Prp4p; HPRP4; PRP4/STK/WD Splicing Factor; U4/U6 SnRNP 60 KDa Protein; WD Splicing Factor Prp4; PRP4 Homolog; PRP4 Pre-mRNA Processing Factor 4 Homolog (Yeast); PRP4 Pre-mRNA Processing Factor 4 Homolog; HPrp4; RP70 |
| <b>Gene ID</b>           | 9128.0                                                                                                                                                                                                                                                                                                                   |
| <b>SwissProt ID</b>      | O43172                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>         | A synthesized peptide derived from human PRPF4                                                                                                                                                                                                                                                                           |

## Background

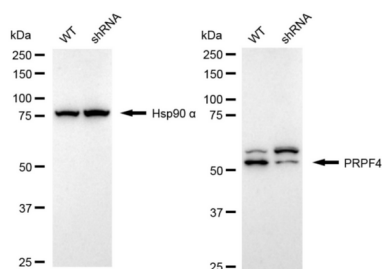
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The protein encoded by this gene is part of a heteromeric complex that binds U4, U5, and U6 small nuclear RNAs and is involved in pre-mRNA splicing. The encoded protein also is a mitotic checkpoint protein and a regulator of chemoresistance in human ovarian cancer. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2016]

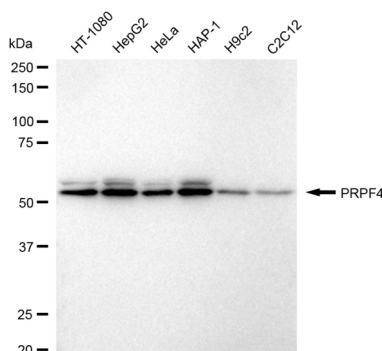
## Research Area

Cell Biology, Epigenetics and Nuclear Signaling

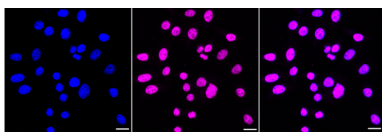
## Image Data



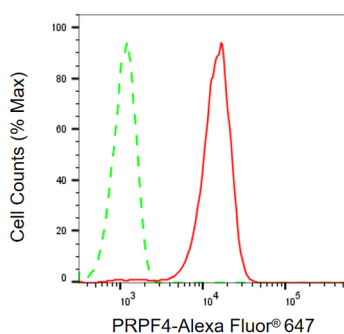
Western blotting analysis using PRPF4 antibody (KVA00961). PRPF4 expression in wild type (WT) and PRPF4 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PRPF4 antibody (KVA00961, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PRPF4 antibody (KVA00961). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PRPF4 antibody (KVA00961, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with PRPF4 antibody (KVA00961, 1:1,000). Nuclei were stained blue with DAPI; PRPF4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of PRPF4 expression in HepG2 cells using PRPF4 antibody (KVA00961, 1:2,000). Green, isotype control; red, PRPF4.