

For Research Use Only

# PRND Polyclonal antibody

Catalog Number: 26947-1-AP

1 Publications



## Basic Information

|  |   |  |
|--|---|--|
| <b>Catalog Number:</b><br>26947-1-AP                         | <b>GenBank Accession Number:</b><br>BC043644  | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150ul, Concentration: 350 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>23627                | <b>Recommended Dilutions:</b><br>WB 1:1000-1:6000            |
| <b>Source:</b><br>Rabbit                                     | <b>UNIPROT ID:</b><br>Q9UKY0                  | IHC 1:50-1:500   |
| <b>Isotype:</b><br>IgG                                       | <b>Full Name:</b><br>prion protein 2 (dublet) | IF-P 1:50-1:500  |
| <b>Immunogen Catalog Number:</b><br>AG25523                  | <b>Calculated MW:</b><br>176 aa, 20 kDa       |  |
|  | <b>Observed MW:</b><br>17-20, 30 kDa          |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, IHC, IF-P, ELISA  | <b>Positive Controls:</b>   |
| <b>Cited Applications:</b><br>IF   | <b>WB :</b> Glucosidase treated mouse testis tissue, mouse testis tissue, rat testis tissue |
| <b>Species Specificity:</b><br>human, mouse, Rat   | <b>IHC :</b> mouse testis tissue,   |
| <b>Cited Species:</b><br>pig   | <b>IF-P :</b> mouse testis tissue,  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

The prion gene family is mainly composed of three genes; PRNP, encoding the prion protein (PrP), PRND, encoding Doppel (Dpl), both located on the same genomic locus on mouse chromosome 2 and SPRN, encoding Shadoo (Sho), located on mouse chromosome 7. PRND (prion protein 2 also called Doppel) is a membranous N-glycosylated, glycosylphosphatidylinositol-anchored protein that is found predominantly in testis. PRND gene is found on chromosome 20, approximately 20 kbp downstream of the gene encoding cellular prion protein, to which it is biochemically and structurally similar. 26947-1-AP antibody detects a 30 kDa glycosylated protein and a 17-20 kDa protein treated by glucosidase.

## Notable Publications

| Author        | Pubmed ID | Journal          | Application |
|---------------|-----------|------------------|-------------|
| Lingkai Zhang | 35436608  | J Genet Genomics | IF          |

## Storage

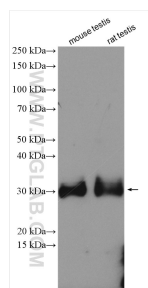
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

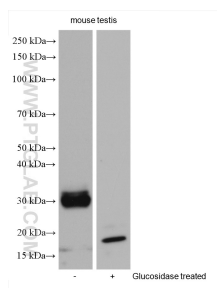
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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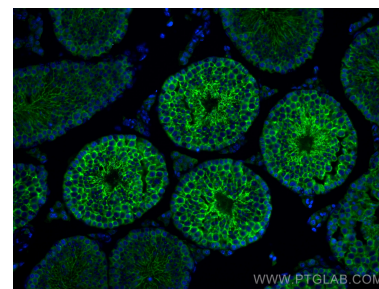
## Selected Validation Data



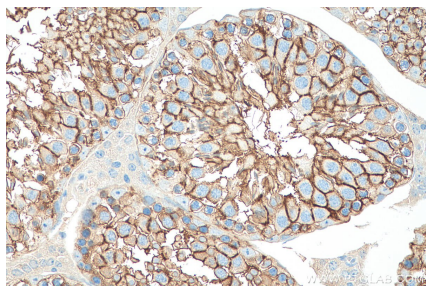
Various lysates were subjected to SDS PAGE followed by western blot with 26947-1-AP (PRND antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Non-treated mouse testis and glucosidase treated mouse testis tissue were subjected to SDS PAGE followed by western blot with 26947-1-AP (PRND antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using PRND antibody (26947-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 26947-1-AP (PRND antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).