abcam

# Product datasheet

# Anti-PRPF31 antibody ab2467

## Overview

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| **Product name** | Anti-PRPF31 antibody |
| **Description** | Goat polyclonal to PRPF31 |
| **Host species** | Goat |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Human<br>**Predicted to work with:** Dog |
| **Immunogen** | Synthetic peptide: LKVKGEKSGLMST, corresponding to C terminal amino acids 487-499 of Human PRPF31.<br>Run BLAST with ExPASy Run BLAST with NCBI |
| **Positive control** | A431 lysate. |
| **General notes** | Principal Names - PRPF31; PRP31 pre-mRNA processing factor 31 homolog (yeast); RP11; PRP31; NY-BR-99; DKFZp566J153; pre-mRNA processing factor 31 homolog (yeast). Official Gene Symbol - PRPF31. GenBank Accession Number – NP_056444. LocusLink ID - 26121. |

## Properties

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| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles. |
| **Storage buffer** | Preservative: 0.02% Sodium Azide<br>Constituents: 0.5% BSA, 5mg/ml Tris, pH 7.3 |
| **Purity** | Immunogen affinity purified |
| **Purification notes** | Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

Our Abpromise guarantee covers the use of **ab2467** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| WB | | Use a concentration of 0.3 - 1 µg/ml. Detects a band of approximately 62 kDa (predicted molecular weight: 55 kDa).Can be blocked with Human PRPF31 peptide (ab22909). |

## Target

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| **Function** | Involved in pre-mRNA splicing. Required for U4/U6.U5 tri-snRNP formation. |
| **Tissue specificity** | Ubiquitously expressed. |
| **Involvement in disease** | Defects in PRPF31 are the cause of retinitis pigmentosa type 11 (RP11) [MIM:600138]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP11 inheritance is autosomal dominant. |
| **Sequence similarities** | Belongs to the PRP31 family.<br>Contains 1 Nop domain. |
| **Domain** | Interacts with the snRNP via the Nop domain.<br>The coiled coil domain is formed by two non-contiguous helices. |
| **Cellular localization** | Nucleus speckle. Nucleus > Cajal body. Predominantly found in speckles and in Cajal bodies. |



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