

For Research Use Only

# CDY1B Polyclonal antibody

Catalog Number: 33231-1-AP



## Basic Information

<b>Catalog Number:</b> 33231-1-AP	<b>GenBank Accession Number:</b> BC132929	<b>Purification Method:</b> Antigen affinity Purification
<b>Concentration:</b> 400 ug/ml	<b>GeneID (NCBI):</b> 253175	<b>Recommended Dilutions:</b> WB: 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y6F8	
<b>Isotype:</b> IgG	<b>Full Name:</b> chromodomain protein, Y-linked, 1B	
<b>Immunogen Catalog Number:</b> AG37962	<b>Calculated MW:</b> 540 aa, 60 kDa/554 aa, 62 kDa	
	<b>Observed MW:</b> 65 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : human testis tissue,
<b>Species Specificity:</b> human	

## Background Information

The CDY1B gene, also known as Chromodomain Y-Linked 1B, is a Protein Coding gene located on the Y chromosome. It is one of the two identical copies of the CDY1 gene within the AZFc region of the human Y chromosome. As a histone acetyltransferase, CDY1B exhibits a strong preference for histone 4, suggesting its involvement in both spermatogenic histone replacement and DNA transcription. It plays a significant role in the chromatin remodeling of round spermatid nuclei, contributing to the transition from histone-based chromatin to protamine-based chromatin during spermatogenesis. This transition is essential for the condensation of sperm DNA and the formation of mature sperm. Deletion of either CDY1 can lead to spermatogenic failure and male infertility.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

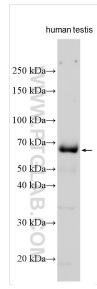
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33231-1-AP (CDY1B antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.