

For Research Use Only

CDY1B Polyclonal antibody, PBS Only

Catalog Number: 33231-1-PBS



Basic Information

Catalog Number:

33231-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG37962

GenBank Accession Number:

BC132929

GeneID (NCBI):

253175

UNIPROT ID:

Q9Y6F8

Full Name:

chromodomain protein, Y-linked, 1B

Calculated MW:

540 aa, 60 kDa/554 aa, 62 kDa

Observed MW:

65 kDa

Purification Method:

Antigen affinity Purification

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

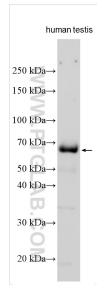
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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. This data was developed using the same antibody clone with 33231-1-PBS in a different storage buffer formulation.