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# CLGN Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9022c

## Product Information

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|---|---|
| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | O14967 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB23137 |
| **Calculated MW** | 70039 |
| **Antigen Region** | 309-336 |

## Additional Information

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| **Gene ID** | 1047 |
| **Other Names** | Calmegin, CLGN |
| **Target/Specificity** | This CLGN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-336 amino acids from the Central region of human CLGN. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | CLGN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | CLGN |
| **Function** | Functions during spermatogenesis as a chaperone for a range of client proteins that are important for sperm adhesion onto the egg zona pellucida and for subsequent penetration of the zona pellucida. Required for normal |

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| | sperm migration from the uterus into the oviduct. Required for normal male fertility. Binds calcium ions (By similarity). |
| **Cellular Location** | Endoplasmic reticulum membrane; Single-pass type I membrane protein |
| **Tissue Location** | Detected in testis (at protein level). Detected in testis. |

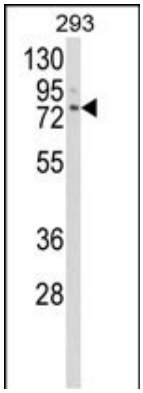
## Background

CLGN probably plays an important role in spermatogenesis. Binds calcium ions.

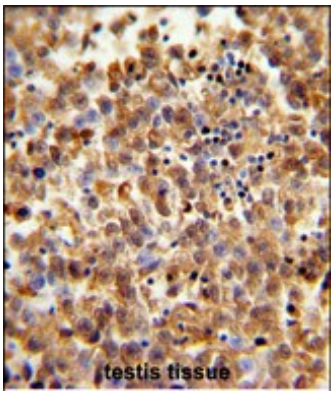
## References

van Lith M., et.al., Mol. Biol. Cell 18:2795-2804(2007).

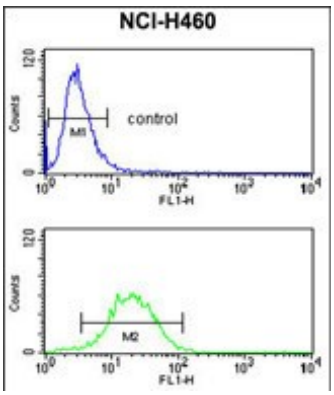
## Images




Western blot analysis of CLGN Antibody (Center) (Cat. #AP9022c) in 293 cell line lysates (35ug/lane). CLGN (arrow) was detected using the purified Pab.




Formalin-fixed and paraffin-embedded human testis tissue reacted with CLGN Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




CLGN Antibody (Center) (Cat. #AP9022c) flow cytometry analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Citations

- Quantitative Proteomics of Human Fibroblasts with I1061T Mutation in Niemann-Pick C1 (NPC1) Protein Provides Insights into the Disease Pathogenesis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.