

CLGN Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1826a

Product Information

Application WB, IHC, ICC, E

Primary Accession

Reactivity

Host

Clonality

Monoclonal

Clone Names

Isotype

Calculated MW

O14967

Human

Mouse

1C8B6

IgG1

70039

Description Calmegin is a testis-specific endoplasmic reticulum chaperone protein. CLGN

may play a role in spermatogeneisis and infertility.

Immunogen Purified recombinant fragment of human CLGN (AA: 249-405) expressed in E.

Coli.

Formulation Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID 1047

Other Names Calmegin, CLGN

Dilution WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~1/10000

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions CLGN Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

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 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

Calmegin is a testis-specific endoplasmic reticulum chaperone protein. CLGN may play a role in spermatogeneisis and infertility.;;

References

1. Arch Histol Cytol. 1999 Aug;62(3):283-93. 2. Dev Biol. 2001 Dec 1;240(1):254-61.

Images

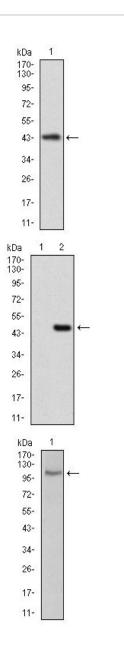
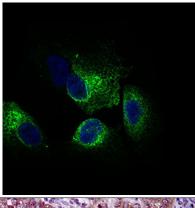


Figure 1: Western blot analysis using CLGN mAb against human CLGN recombinant protein. (Expected MW is 43.5 kDa)

Figure 2: Western blot analysis using CLGN mAb against HEK293 (1) and CLGN (AA: 249-405)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 3: Western blot analysis using CLGN mouse mAb against LNCAP cell lysate.

Figure 4: Immunofluorescence analysis of Hela cells using CLGN mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



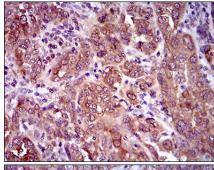


Figure 5: Immunohistochemical analysis of paraffin-embedded endometrial cancer tissues using CLGN mouse mAb with DAB staining.

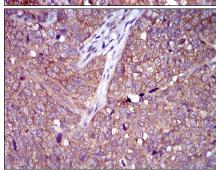


Figure 6: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using CLGN mouse mAb with DAB staining.

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