

Basic Information

Product Name	Anti-Calmegin/CLGN Antibody
Gene Name	CLGN
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived mouse Calmegin/Clgn recombinant protein (Position: N18-D611).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	95 kDa
Dilution Ratios	Western blot (WB):1:500-2000 ELISA: 1:100-1000

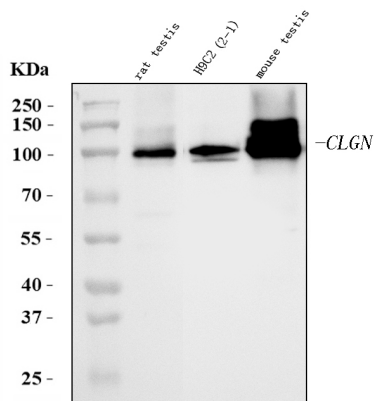
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Calmegin, also known as CLGN, is a protein which in humans is encoded by the CLGN gene. This gene belongs to the calreticulin family, which includes calreticulin, calnexin, and calmegin, and encodes a calcium-binding molecular chaperone specifically expressed in pachytene stage male germ cells. It is required for the proper folding of newly synthesized membrane proteins in the endoplasmic reticulum including those critical for sperm migration from the uterus into the oviduct and sperm adhesion to and penetration of the zona pellucida. This gene plays a key role in spermatogenesis and male infertility. Alternative splice variants exist for this gene.

Selected Validation Data



Western blot analysis of Calmegin/CLGN using anti-Calmegin/CLGN antibody (A05261-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat testis tissue lysates,

Lane 2: H9C2(2-1) whole cell lysates,

Lane 3: mouse testis tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Calmegin/CLGN antigen affinity purified polyclonal antibody (A05261-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Calmegin/CLGN at approximately 95 kDa. The expected band size for Calmegin/CLGN is at 70 kDa.