

## Anti-Calmegin/Clgn Antibody Picoband®

Catalog Number: A05261-2

### About Clgn

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.

### Overview

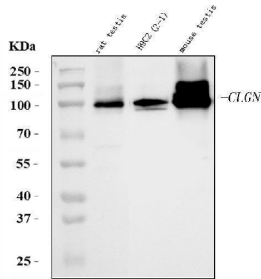
Product Name	Anti-Calmegin/Clgn Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Calmegin/Clgn Antibody Picoband® catalog # A05261-2. Tested in ELISA, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P52194

### Technical Details

Immunogen	E.coli-derived mouse Calmegin/Clgn recombinant protein (Position: N18-D611).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.25 ug/ml, Mouse, Rat ELISA, 0.1-0.5 ug/ml, -

## Anti-Calmegin/Clgn Antibody Picoband® (A05261-2) Images



Western blot analysis of Calmegin/Clgn using anti-Calmegin/Clgn antibody (A05261-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat testis tissue lysates, Lane 2: rat H9C2(2-1) whole cell lysates, Lane 3: mouse testis tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Calmegin/Clgn antigen affinity purified polyclonal antibody (Catalog # A05261-2) at 0.25 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Calmegin/Clgn at approximately 95 kDa. The expected band size for Calmegin/Clgn is at 70 kDa.

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