

Datasheet for ABIN7600354
anti-Calmegin antibody (AA 18-611)



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Overview

Quantity:	100 µg
Target:	Calmegin (CLGN)
Binding Specificity:	AA 18-611
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calmegin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-Calmegin/Clgn Antibody Picoband®
Immunogen:	E.coli-derived mouse Calmegin/Clgn recombinant protein (Position: N18-D611).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Calmegin/Clgn Antibody Picoband® (ABIN7600354). 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.
Purification:	Immunogen affinity purified.

Target Details

Target:	Calmegin (CLGN)
Alternative Name:	Clgn (CLGN Products)
Background:	Synonyms: Transcription factor MafA, Pancreatic beta-cell-specific transcriptional activator, RIPE3b1 factor, V-maf musculoaponeurotic fibrosarcoma oncogene homolog A, MAFA Tissue Specificity: Preferentially expressed in regulatory T-cells (Tregs). Background: 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.
Molecular Weight:	95 kDa
Gene ID:	12745
UniProt:	P52194

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. Ikawa, M., Nakanishi, T., Yamada, S., Wada, I., Kominami, K., Tanaka, H., Nozaki, M., Nishimune, Y., Okabe, M. Calmegin is required for fertilin alpha/beta heterodimerization and sperm fertility. Dev. Biol. 240: 254-261, 2001. 2. Ikawa, M., Wada, I., Kominami, K., Watanabe, D., Toshimori, K., Nishimune, Y., Okabe, M. The putative chaperone calmegin is required for sperm fertility. Nature 387: 607-611, 1997. 3. Tanaka, H., Ikawa, M., Tsuchida, J., Nozaki, M., Suzuki, M., Fujiwara, T., Okabe, M., Nishimune, Y. Cloning and characterization of the human calmegin gene encoding putative testis-specific chaperone. Gene 204: 159-163, 1997.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	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.