

Rabbit Calsequestrin 1 Polyclonal Antibody | anti-CASQ1 antibody

Anti-Calsequestrin 1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257536	Rabbit	Human, Cynomolgus	Immunohistochemistry, ELISA

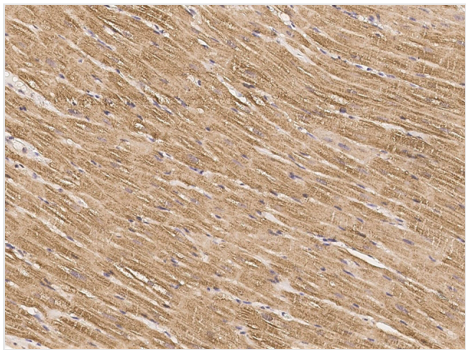
PRODUCT SYNONYMS

Calsequestrin 1; Polyclonal Antibody; Anti-Calsequestrin 1 Antibody; Rabbit Polyclonal; Calsequestrin-1/CASQ1 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-CASQ Antibody; Anti-PDIB1 Antibody; Anti-VMCQA Antibody; calsequestrin 1 (fast-twitch; skeletal muscle); anti-CASQ1 antibody

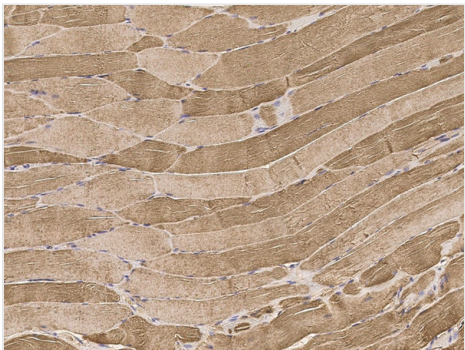
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Cynomolgus
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Calsequestrin 1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid. 0.2um filtered solution in PBS
Applicable Applications for anti-CASQ1 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human Calsequestrin-1/CASQ1 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Calsequestrin-1/CASQ1 (rh Calsequestrin-1/CASQ1; P31415; Gln35-Asp396). Calsequestrin-1/CASQ1 specific IgG was purified by Human Calsequestrin-1/CASQ1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

IMAGES



IHC (Immunohistochemistry)
Immunochemical staining CASQ1 in cynomolgus heart with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining CASQ1 in human skeletal muscle with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-CASQ1 antibody	Background: Calsequestrin-1 is an isoform of calsequestrin. Calsequestrin is a calcium-binding protein of the sarcoplasmic reticulum. It helps hold calcium in the cisterna of the sarcoplasmic reticulum after a muscle contraction, even though the concentration of calcium in the sarcoplasmic reticulum is much higher than in the cytosol. Two forms of calsequestrin have been identified: Calsequestrin-2 and Calsequestrin-1. Calsequestrin-1 is found in fast skeletal muscle. The release of calsequestrin-bound calcium (through a calcium release channel) triggers muscle contraction. The active protein is not highly structured, more than 5% of it adopting a random coil conformation. When calcium binds there is a structural change whereby the alpha-helical content of the protein increases from 3 to 11%. Both forms of calsequestrin are phosphorylated by casein kinase 2, but the cardiac form is phosphorylated more rapidly and to a higher degree. Calsequestrin-1 is also secreted in the gut where it deprives bacteria of calcium ions.
References	Slupsky JR, et al. (1987) Characterization of cardiac calsequestrin. Biochemistry. 26(20): 6539-44. Cala SE, et al. (1991) Phosphorylation of cardiac and skeletal muscle calsequestrin isoforms by casein kinase II. Demonstration of a cluster of unique rapidly phosphorylated sites in cardiac calsequestrin. J Biol Chem. 266(1):391-8. Wang S, et al. (1998) Crystal structure of calsequestrin from rabbit skeletal muscle sarcoplasmic reticulum. Nat Struct Biol. 5(6):476-83.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/calsequestrin-1-antibody-immunohistochemistry-elisa/257536>