

Mouse anti-Human, Mouse CASQ2 Monoclonal Antibody | anti-CASQ2 antibody

CASQ2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48090	Mouse	Human, Mouse	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

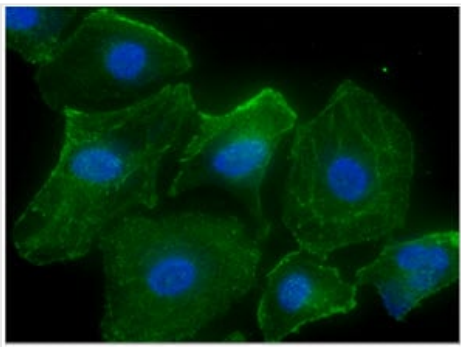
PRODUCT SYNONYMS

CASQ2; Monoclonal Antibody; CASQ2 antibody; PDIB2; Calsequestrin 2 (cardiac muscle); Calsequestrin 2 fast twitch cardiac muscle; Calsequestrin cardiac muscle isoform; Calsequestrin fast twitch cardiac muscle; Calsequestrin2; Cardiac calsequestrin 2; CASQ 2; ESTM52; FLJ26321; FLJ93514; PDIB2.; anti-CASQ2 antibody

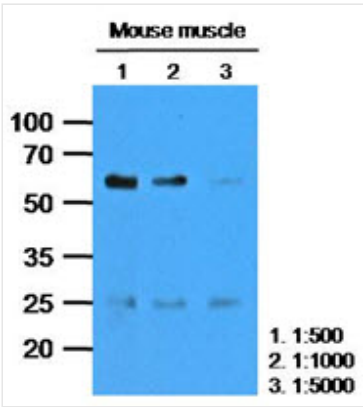
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	AT4E10
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	399
Applicable Applications for anti-CASQ2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CASQ2 (20-399aa) purified from E. coli
Clone Note	Anti-human CASQ2 mAb, clone AT4E10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CASQ2 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)
ICC/IF analysis of CASQ2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CASQ2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)
The extracts of Mouse muscle (35ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CASQ2 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-CASQ2 antibody	CASQ2 (Calsequestrin 2) protein responsible for holding Calcium together with other two proteins junction and triadin at the sarcoplasmic reticulum renders the hear vulnerable to severe cardiac arrhythmias, known as CPVT (catecholaminergic polymorphic ventricular tachycardia), during physical exercise.
Product Categories/Family for anti-CASQ2 antibody	Cardiovascular
References	Eckstein, A.K., et al. (2006) J. Clin. Endo. and Meta. 91: 3464-3470.; Paschke, R., et al (1995) Clin. Endo. 42: 565-569.; Bahn, R.S. (2003) J. Clin. Endo. and Meta. 88: 1939-1946.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119395727
NCBI GeneID	845
NCBI Accession #	NP_001223
NCBI GenBank Nucleotide #	NM_001232.3
UniProt Accession #	O14958; Q5T1D2; Q8TBW8; B2R7M6; B4DIB0
Molecular Weight	38,269 Da
NCBI Official Full Name	calsequestrin-2
NCBI Official Synonym Full Names	calsequestrin 2
NCBI Official Symbol	CASQ2
NCBI Official Synonym Symbols	PDIB2
NCBI Protein Information	calsequestrin-2
UniProt Protein Name	Calsequestrin-2
UniProt Gene Name	CASQ2

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.