

Rabbit CASQ2 Polyclonal Antibody | anti-CASQ2 antibody

CASQ2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327377	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

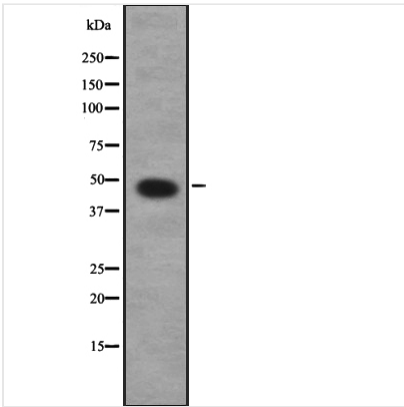
PRODUCT SYNONYMS

CASQ2; Polyclonal Antibody; CASQ2 Antibody; AA033488; AW146219; Calsequestrin 2 (cardiac muscle); Calsequestrin 2 fast twitch cardiac muscle; Calsequestrin; Calsequestrin cardiac muscle isoform; Calsequestrin fast twitch cardiac muscle; Calsequestrin-2; Calsequestrin2; cardCSQ; Cardiac calsequestrin 2; cardiac muscle isoform; CASQ 2; CASQ2_HUMAN; cCSQ; ESTM52; FLJ26321; FLJ93514; PDIB2; anti-CASQ2 antibody

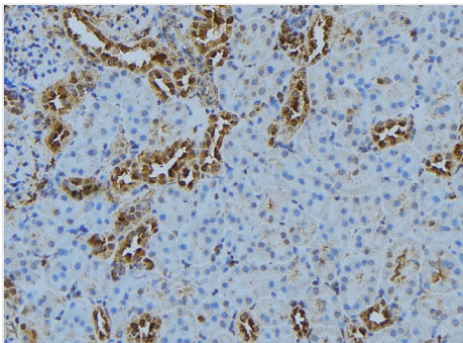
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CASQ2 antibody detects endogenous levels of total CASQ2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	399
Applicable Applications for anti-CASQ2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CASQ2
Subcellular Location	Sarcoplasmic Reticulum Lumen. Mitochondrion. This isoform of calsequestrin occurs in the sarcoplasmic reticulum's terminal cisternae luminal spaces of fast skeletal muscle cells. Also mitochondrial according to PubMed:7945294.
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of CASQ2 using COS7 whole cell lysates



IHC (Immunohistochemistry)
AAA327377 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CASQ2 antibody	Function: Calsequestrin is a high-capacity, moderate affinity, calcium-binding protein and thus acts as an internal calcium store in muscle. Calcium ions are bound by clusters of acidic residues at the protein surface, especially at the interface between subunits. Can bind around 60 Ca²⁺ ions. Regulates the release of luminal Ca²⁺ via the calcium release channel RYR2; this plays an important role in triggering muscle contraction. Plays a role in excitation-contraction coupling in the heart and in regulating the rate of heart beats. Subunit Structure: Monomer, homodimer and homooligomer. Mostly monomeric in the absence of calcium. Forms higher oligomers in a calcium-dependent manner. Dimers associate to form tetramers, that then form linear homopolymer chains. Interacts with ASPH and TRDN. Post-translational Modifications: Phosphorylation in the C-terminus, probably by CK2, moderately increases calcium buffering capacity. N-glycosylated. Similarity: Belongs to the calsequestrin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119395727
NCBI GeneID	845
NCBI Accession #	NP_001223.2
NCBI GenBank Nucleotide #	NM_001232.3
UniProt Accession #	O14958; Q5T1D2; Q8TBW8; B2R7M6; B4DIB0
Molecular Weight	Observed: 46 kDa Predicted: 47 kDa
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.

