



# Mouse anti-Human CASQ2 polyclonal antibody (DPAB-DC3481)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Antigen Description** The protein encoded by this gene specifies the cardiac muscle family member of the calsequestrin family. Calsequestrin is localized to the sarcoplasmic reticulum in cardiac and slow skeletal muscle cells. The protein is a calcium binding protein that stores calcium for muscle function. Mutations in this gene cause stress-induced polymorphic ventricular tachycardia, also referred to as catecholaminergic polymorphic ventricular tachycardia 2 (CPVT2), a disease characterized by bidirectional ventricular tachycardia that may lead to cardiac arrest.

**Immunogen** CASQ2 (NP\_001223, 21 a.a. ~ 119 a.a) partial recombinant protein with GST tag. The sequence is  
EGLNFPTYDGKDRVVSLSEKNFKQVLKKYDLLCLYYHEPVSSDKVTPKQFQLKEIVLELV  
AQVLEHKAIGFVMVDAKKEAKLAKKLGFDEEGSLYILKG

**Source/Host** Mouse

**Species Reactivity** Human

**Conjugate** Unconjugated

**Applications** WB (Recombinant protein), ELISA,

**Size** 50 µl

**Buffer** 50 % glycerol

**Preservative** None

**Storage** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CASQ2 calsequestrin 2 (cardiac muscle) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CASQ2
<b>Synonyms</b>	CASQ2; calsequestrin 2 (cardiac muscle); PDIB2; calsequestrin-2; calsequestrin, cardiac muscle isoform; calsequestrin 2, fast-twitch, cardiac muscle;
<b>Entrez Gene ID</b>	<a href="#">845</a>
<b>Protein Refseq</b>	<a href="#">NP_001223</a>
<b>UniProt ID</b>	<a href="#">O14958</a>
<b>Chromosome Location</b>	1p13.1
<b>Pathway</b>	Calcium Regulation in the Cardiac Cell;
<b>Function</b>	calcium ion binding; protein binding; protein homodimerization activity;