



# Mouse anti-Human CASQ1 monoclonal antibody, clone 2E8 (CABT-B9901)

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

## PRODUCT INFORMATION

<b>Immunogen</b>	CASQ1 (NP_001222, 29 a.a. ~ 131 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG3
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	2E8
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	sELISA, ELISA
<b>Sequence Similarities</b>	QEGLDFPEYDGVDRVINVNAKNYKNVFKKYEVLALLYHEPPEDDKASQRQFEMEELILEL AAQVLEDKGVGFGLVDSEKDAAVAKKLGLTEVDSMYVFKGDE*
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	In 1x PBS, pH 7.2
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## BACKGROUND

<b>Introduction</b>	This gene encodes the skeletal muscle specific member of the calsequestrin protein family. Calsequestrin functions as a luminal sarcoplasmic reticulum calcium sensor in both cardiac and
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skeletal muscle cells. This protein, also known as calmitine, functions as a calcium regulator in the mitochondria of skeletal muscle. This protein is absent in patients with Duchenne and Becker types of muscular dystrophy. [provided by RefSeq, Jun 2013]

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<b>Keywords</b>	CASQ1; calsequestrin 1 (fast-twitch, skeletal muscle); CASQ; PDIB1; calsequestrin-1; calmitin; calmitine; calsequestrin, skeletal muscle isoform;
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## GENE INFORMATION

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<b>Entrez Gene ID</b>	<a href="#">844</a>
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<b>UniProt ID</b>	<a href="#">P31415</a>
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<b>Pathway</b>	Calcium Regulation in the Cardiac Cell, organism-specific biosystem
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<b>Function</b>	calcium ion binding
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