

**CASQ2 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a full length recombinant CASQ2.

Catalog # AT1405a

**Specification**

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**CASQ2 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O14958</a>
Other Accession	<a href="#">BC022288</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b kappa
Calculated MW	46436

**CASQ2 Antibody (monoclonal) (M01) - Additional Information**

**Gene ID** 845

**Other Names**

Calsequestrin-2, Calsequestrin, cardiac muscle isoform, CASQ2

**Target/Specificity**

CASQ2 (AAH22288, 20 a.a. ~ 399 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

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

**Precautions**

CASQ2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

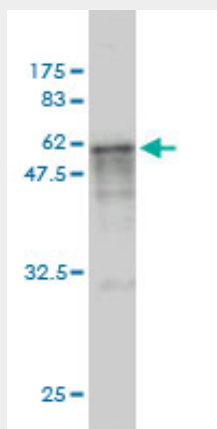
**CASQ2 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

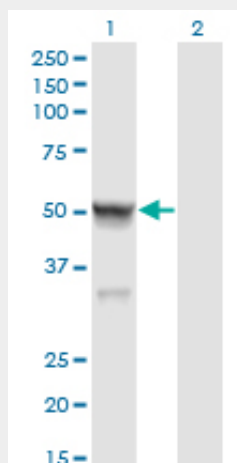
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CASQ2 Antibody (monoclonal) (M01) - Images



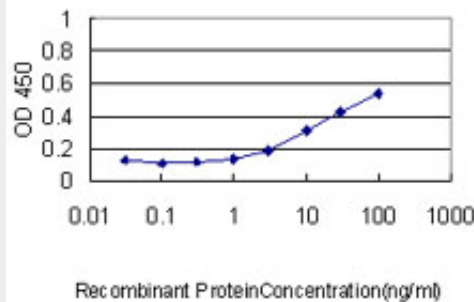
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (67.54 kDa) .



Western Blot analysis of CASQ2 expression in transfected 293T cell line by CASQ2 monoclonal antibody (M01), clone 1B6.

Lane 1: CASQ2 transfected lysate(46.4 kDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged CASQ2 is approximately 0.3ng/ml as a capture antibody.

### **CASQ2 Antibody (monoclonal) (M01) - Background**

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.

### **CASQ2 Antibody (monoclonal) (M01) - References**

1.A novel mouse model of X-linked cardiac hypertrophy. Leatherbury L, Yu Q, Chatterjee B, Walker DL, Yu Z, Tian X, Lo CW. Am J Physiol Heart Circ Physiol. 2008 Jun;294(6):H2701-11. Epub 2008 Apr 18.