

## Product datasheet for **AM33001PU-N**

### ACTC1 Mouse Monoclonal Antibody [Clone ID: 22D3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	22D3
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Flow Cytometry.</b> <b>Immunoblotting.</b> <b>Immunofluorescence.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin-Embedded Sections.</b> <i>Recommended Dilutions: 1/100-1/1000 for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent and 1/1000-1/5000 for immunoblotting applications.</i>
Reactivity:	Human, Porcine, Rabbit, Rat, Zebrafish
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide comprising the N-terminal nonapeptide of $\alpha$ -Cardiac Actin with an acetylated N-terminus coupled to keyhole limpet hemocyanin through the cysteine residue.
Specificity:	This 22D3 Monoclonal antibody is highly specific for Alpha-Cardiac Actin, and <b>does not</b> cross react with other Actin isoforms.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.
Stability:	Shelf life: One year from despatch.



[View online »](#)

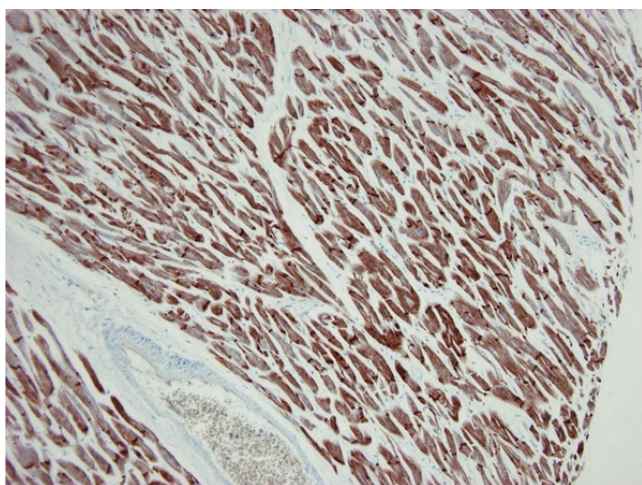
**Gene Name:** actin, alpha, cardiac muscle 1

**Database Link:** [Entrez Gene 70 Human P68032](#)

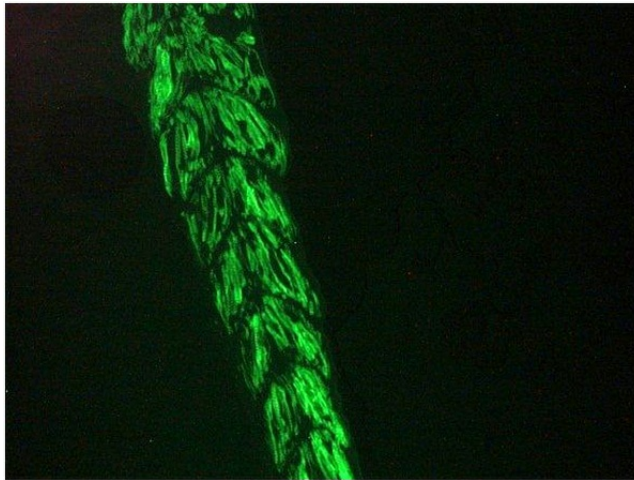
**Background:** Among the six actin isoforms described in mammals, two are found in virtually all cells ( $\beta$ - and  $\gamma$ -cytoplasmic), two are detected in smooth muscle cells ( $\alpha$ - and  $\gamma$ -smooth muscle) and two are present in striated muscles, one predominantly in skeletal ( $\alpha$ -skeletal) and one in cardiac ( $\alpha$ -cardiac) muscle cells. These actin isoforms differ slightly in their N-terminus, but the sequence of each of these actins is highly conserved in higher vertebrates. Cardiac  $\alpha$ -actin, which is the main actin isoform in the adult heart, has also been shown to be the predominant form in early muscle development. In later development the expression of  $\alpha$ -cardiac actin is down regulated and  $\alpha$ -skeletal actin becomes the dominant isoform in the adult skeletal muscle.

**Synonyms:** ACTC; ASD5; CMD1R; CMH11

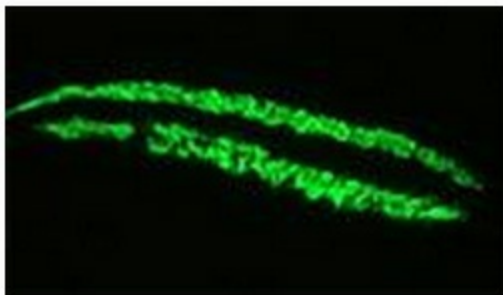
### Product images:



Paraffin Section of Human cardiac muscle immunostained with 22D3 antibody (1/500)



Immunofluorescence staining of muscle tissue in the tail of 3 days old Zebrafish embryo.



Immunofluorescence staining of developing myocardium in 1 month old Zebrafish embryo.