

Actin, Muscle Specific (PT0284R) Rabbit mAb (Ready to Use)

CatalogNo: YM7233R **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Bovine, Pig, Chicken

Applications

- IHC

Isotype

- IgG1, Kappa

Storage

Storage* 2°C to 8°C/1 year, Ship by ice bag

Formulation The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300

Recommended Dilution Ratios

Ready to use for IHC

Basic Information

Clonality Monoclonal

Clone Number PT0284R

Immunogen Information

Immunogen Synthesized peptide derived from human Actin, Muscle Specific AA range:1-100

Specificity This antibody detects endogenous levels of Actin, Muscle Specific

| Target Information

Gene name ACTA1;ACTA2;ACTC1;ACTG2

Protein Name α -Skeletal Muscle Actin (α -SA) ; α -Cardiac Muscle Actin (α -CA) ; α -Smooth Muscle Actin (α -SMA) ; γ -Smooth Muscle Actin (γ -SMA) ;

Organism

Gene ID

UniProt ID

Human

[58](#); [59](#); [70](#); [72](#);

[P68032](#); [P68133](#); [P63267](#); [P62736](#);

Cellular Localization Cytoplasmic

Tissue specificity Muscle ,Tongue ,

Function Disease:Defects in ACTC1 are the cause of cardiomyopathy dilated type 1R (CMD1R) [MIM:102540]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function , resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death. ,Disease:Defects in ACTC1 are the cause of cardiomyopathy familial hypertrophic type 11 (CMH11) [MIM:612098]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy , which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea , syncope , collapse , palpitations , and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death. ,Function:Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. ,miscellaneous:In vertebrates 3 main groups of actin isoforms , alpha , beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility. ,similarity:Belongs to the actin family. ,subunit:Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others. ,

| Validation Data

| Contact information

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