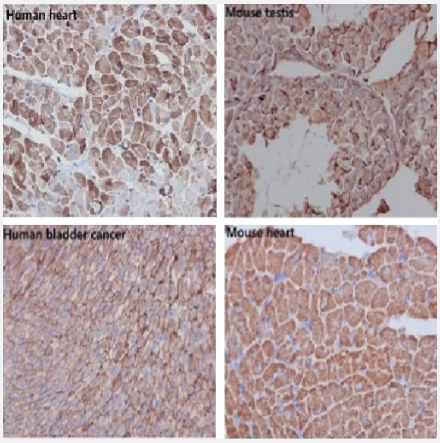
RecomAb™

# ACTB recombinant monoclonal antibody, clone R09-4C9

Catalog # RAB01561 Size 100 uL

## Applications




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin-fixed paraffin-embedded sections) of (1) Human heart; (2) mouse testis; (3) Human bladder cancer; (4) mouse heart with beta Actin recombinant monoclonal antibody, clone R09-4C9 (Cat # RAB01561).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against synthetic peptide of human beta Actin. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic peptide corresponding to human beta Actin |
| **Theoretical MW (kDa)** | Calculated MW: 42 kD |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (CHO) expression system |
| **Purification** | Affinity purification |
| **Isotype** | IgG |

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|---|---|
| **Recommend Usage** | Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (1:50-1/100)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA). |
| **Storage Instruction** | Store at 4°C for short term. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemistry (Formalin-fixed paraffin-embedded sections) of (1) Human heart; (2) mouse testis; (3) Human bladder cancer; (4) mouse heart with beta Actin recombinant monoclonal antibody, clone R09-4C9 (Cat # RAB01561).

- Immunohistochemistry (Frozen sections)
- Immunocytochemistry
- Western Blot

## Gene Info — ACTB

| | |
|---|---|
| **Entrez GeneID** | 60 |
| **Protein Accession#** | P60709 |
| **Gene Name** | ACTB |
| **Gene Alias** | PS1TP5BP1 |
| **Gene Description** | actin, beta |
| **Omim ID** | 102630 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes one of six different actin proteins. Actins are highly conserved proteins that ar e involved in cell motility, structure, and integrity. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins. [provided by RefSeq |

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|---|---|
| **Other Designations** | PS1TP5-binding protein 1\|actin, cytoplasmic 1\|beta actin\|beta cytoskeletal actin |

## Pathway

- Adherens junction
- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Focal adhesion
- Hypertrophic cardiomyopathy (HCM)
- Leukocyte transendothelial migration
- Pathogenic Escherichia coli infection - EHEC
- Regulation of actin cytoskeleton
- Tight junction
- Vibrio cholerae infection

## Disease

- Breast cancer
- Breast Neoplasms

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