

# Biotin-conjugated Beta Actin Monoclonal antibody

Catalog Number: Biotin-60008

4 Publications

## Basic Information

## Catalog Number:

Biotin-60008

## Size:

1000  $\mu$ g/ml

## Source:

Mouse

## Isotype:

IgM

## Immunogen Catalog Number:

AG0297

## GenBank Accession Number:

BC002409

## GeneID (NCBI):

60

## UNIPROT ID:

P60709

## Full Name:

actin, beta

## Calculated MW:

375 aa, 42 kDa

## Observed MW:

42 kDa

## Purification Method:

Caprylic acid/ammonium sulfate precipitation

## CloneNo.:

7D2C10

## Recommended Dilutions:

IHC 1:50-1:500

## Applications

## Tested Applications:

IHC

## Cited Applications:

WB

## Species Specificity:

human, mouse, rat, pig, plant, Zebrafish

## Cited Species:

human, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

IHC : mouse heart tissue,

## Background Information

Beta actin, also named as ACTB and F-Actin, belongs to the actin family. Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpha (ACTC1, cardiac muscle 1), alpha 1 (ACTA1, skeletal muscle) and 2 (ACTA2, aortic smooth muscle), beta (ACTB), gamma 1 (ACTG1) and 2 (ACTG2, enteric smooth muscle). Beta and gamma 1 are two non-muscle actin proteins. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. Beta actin has been widely used as the internal control in RT-PCR and Western Blotting as a 42-kDa protein. However, the 37-40 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody can recognize all the actins.

## Notable Publications

Author	Pubmed ID	Journal	Application
Gaojian Zhang	35372814	iScience	WB
Yi Zhang	38044598	Balkan Med J	WB
Juan Luo	37614421	Exp Ther Med	WB

## Storage

## Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

## Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

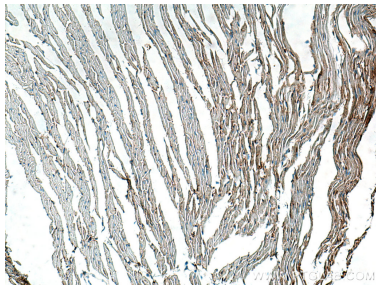
For technical support and original validation data for this product please contact:

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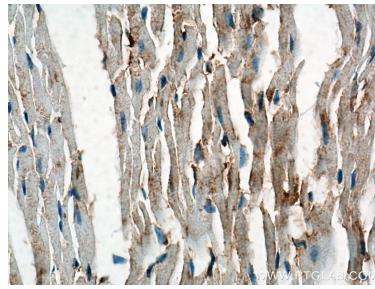
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using Biotin-60008 (beta Actin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using Biotin-60008 (beta Actin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).