

For Research Use Only

Biotin-conjugated Beta Actin Monoclonal antibody



Catalog Number: Biotin-60008 **4 Publications**

Basic Information

Catalog Number: Biotin-60008	GenBank Accession Number: BC002409	Purification Method: Caprylic acid/ammonium sulfate precipitation
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 60	CloneNo.: 7D2C10
Source: Mouse	Full Name: actin, beta	Recommended Dilutions: IHC 1:50-1:500
Isotype: IgM	Calculated MW: 375 aa, 42 kDa	
Immunogen Catalog Number: AG0297	Observed MW: 42 kDa	

Applications

Tested Applications: IHC	Positive Controls: IHC : mouse heart tissue,
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	

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

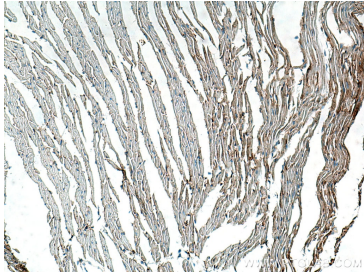
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

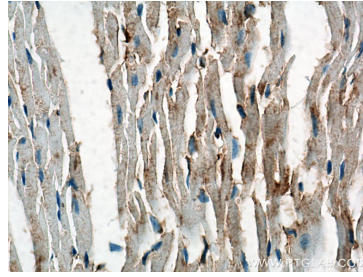
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



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).