

For Research Use Only

HRP-conjugated Beta Actin Monoclonal antibody

Catalog Number:HRP-60008

452 Publications



Basic Information

Catalog Number:

HRP-60008

Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgM

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:

WB: 1:2000-1:16000

Applications

Tested Applications:

WB

Cited Applications:

WB, ELISA

Species Specificity:

human, mouse, rat, zebrafish, plant

Cited Species:

human, mouse, rat, pig, canine, monkey, chicken, hamster

Positive Controls:

WB : HeLa cells, multi-cells/tissue, HepG2 cells

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. This antibody can recognize all of actins. This antibody is conjugated with HRP.

Note: Do not add Azium (Sodium Azide or Smite) into the dilution buffer. Azium is the HRP inhibitor which decreases the enzymatic activity of HRP.

Notable Publications

Author	Pubmed ID	Journal	Application
Hong-Tao Li	33093917	Oncol Lett	WB
Guoqing Jing	36171629	J Neuroinflammation	WB
Hao-Yuan Li	36290610	Antioxidants (Basel)	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, pH7.3

Aliquoting is unnecessary for -20°C storage

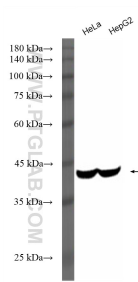
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

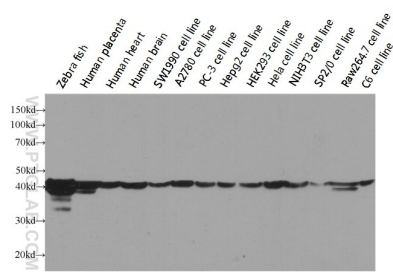
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with HRP-60008 (Beta Actin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Western blot analysis of beta actin in various tissues and cell lines using Proteintech antibody HRP-60008 at a dilution of 1:5000.