For Research Use Only

HRP-conjugated Beta Actin Monoclonal antibody

Catalog Number:HRP-66009 Featured Product 176 Publications

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Basic Information

Catalog Number:
HRP-66009

Source:
Mouse

Isotype:
IgG2b

GenBank Accession Number:
NM_001101

GeneID (NCBI):
60

UNIPROT ID:
P60709

Full Name:
actin, beta

Calculated MW:
42 kDa

Observed MW:
42 kDa

Purification Method:
Protein A purification

CloneNo.:
2D4H5

Recommended Dilutions:
WB: 1:2000-1:50000

Applications

Tested Applications:
WB

Cited Applications:
WB

Species Specificity:
human, mouse, rat, monkey, zebrafish, hamster

Cited Species:
human, mouse, rat, pig, monkey

Positive Controls:

WB : Jurkat cells, HeLa cells, HepG2 cells, HEK-293 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

Background Information

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 41 kDa cleaved fragment of beta actin can be generated during apoptosis process.This antibody is conjugated with HRP. It can recognize all the actins. The isotype of this antibody is IgG2b.

Notable Publications

Author	Pubmed ID	Journal	Application
Rudolf Hergesheimer	33003404	Cells	
Yi Li	36162742	Free Radic Biol Med	WB
Yujing Gao	36130933	Cell Death Dis	WB

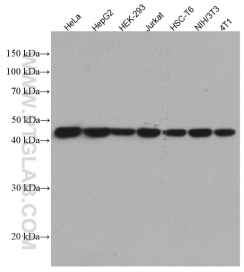
Storage

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: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with HRP-66009 (beta Actin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.