

For Research Use Only

HRP-conjugated Beta Actin Monoclonal antibody



Catalog Number: HRP-66009

Featured Product

15 Publications

Basic Information

Catalog Number: HRP-66009	GenBank Accession Number: NM_001101	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 60	CloneNo.: 2D4H5
Source: Mouse	Full Name: actin, beta	Recommended Dilutions: WB 1:2000-1:50000
Isotype: IgG2b	Calculated MW: 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications: WB	Positive Controls: WB : Jurkat cells, HeLa, HepG2, HEK-293, HSC-T6, NIH/3T3, 4T1 cells
Cited Applications: WB	
Species Specificity: human, mouse, rat, hamster, zebrafish, monkey	
Cited Species: human, mouse, rat	

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	
Andrew Sinsheimer	34556413	Mol Genet Metab	WB
Mateus Grings	31477743	Sci Rep	WB

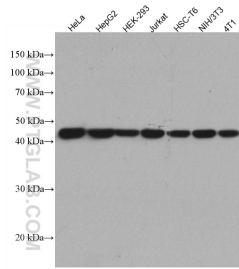
Storage

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:
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

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.